ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE

COUNTY BOROUGH OF CARDIFF,

FOR THE YEAR 1901.

CARDIFF:
Lennox Brothers, Printers, 18 and 19, West Bute Street, Docks.

1902.

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EDWARD WALFORD, M.D., Durh.,
D.P.H. Camb., Fellow of the Sanitary Institute,
Medical Officer of Health.

Printed by Order of the Sanitary Authority.

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COUNTY BOROUGH OF CARDIFF.

Health and Port Sanitary Committee.

Mayor:

COUNCILLOR F. J. BEAVAN, J.P.

Chairman:

ALDERMAN T. WINDSOR JACOBS, J.P.

ALDERMAN P. W. CAREY, J.P.	COUNCILLOR R. HUGHES, J.P., *Deputy Chairman.*
,, J. RAMSDALE, J.P.	,, LEWIS MORGAN.
,, Sir T. MOREL, Kt., J.P.	,, J. NORMAN.
COUNCILLOR J. JENKINS, J.P.	,, J. ROBINSON.
,, T. ANDREWS, J.P.	,, F. G. L. DAVIS.
,, W. S. CROSSMAN.	,, F. J. NICHOLLS.

Cardiff Urban Sanitary Authority.

Town Hall,
Cardiff,
June, 1902.

TO THE CHAIRMAN AND MEMBERS OF THE
CARDIFF URBAN SANITARY AUTHORITY.

Gentlemen,

I have the honour of submitting to you my Report for the year 1901, made in accordance with the Local Government Board's Order of March, 1891, which specifies the information to be contained in the Annual Reports of Medical Officers of Health.

A Memorandum, issued by the Board's Medical Officer, dated October, 1901, directs that—"the Report should be chiefly concerned with the conditions affecting health in the "district and with the means for improving those conditions. It should contain an account, "brought up to the end of the year under review, of the Sanitary circumstances of the district, "and of any improvement or deterioration which may have occurred during the year in those "circumstances. Care should be taken to report fully and explicitly on the influences affecting "or threatening to affect injuriously the public health in the district, and on the action which "has been taken, or which may still be needed, with a view to combat those influences. It is of "especial importance that the Medical Officer of Health should record what action has been "taken to remedy unhealthy conditions which have been reported by him in previous Annual "Reports, or in special reports presented during the year under review, and that attention "should be called afresh year by year to such as remain unremedied."

The Report will, therefore, contain information relating to the following subjects :—

(1) Physical features, general character, meteorology and vital statistics of the district.

(2) House accommodation, especially for the working class: Its adequacy and fitness. Sufficiency of open space about houses, and cleanliness of surroundings.

(3) Sewerage and Drainage: Its sufficiency in all parts of the district.

(4) Removal and disposal of house refuse.

(5) Water Supply of the District: Sufficiency, wholesomeness, and freedom from risks of pollution.

(6) Places over which the Council have supervision, *e.g.*, Lodging-houses, Slaughter-houses, Bakehouses, Dairies, Cowsheds and Milkshops, Factories and Workshops, and offensive trades.

(7) Nuisances: Proceedings for their abatement.

(8) Methods of dealing with Infectious Diseases: Notification; Isolation Hospital accommodation and disinfection.

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CARDIFF URBAN SANITARY AUTHORITY.

Medical Officer of Health's Department.

Medical Officer of Health:
EDWARD WALFORD, M.D., D.P.H.

Chief Inspector of Nuisances:
D. VAUGHAN.

District Inspectors:

T. W. WARREN*
S. EVANS*
F. GLOVER*
J. W. HOLDEN*
W. FISHER*
S. R. HENDERSON.*

Inspectors for Infectious Diseases:

GEO. THOMAS*
A. F. MALE*

Inspector of Lodging Houses:
E. J. MANDERS*

Inspector of Dairies, Cowsheds, and Milkshops, and under Sale of Food and Drugs Acts:
A. GREEN.

Inspector under Shop Hours Act and Inspector of Workshops:
J. ASHMAN.

Disinfector.
F. DAVEY.

Senior Clerk:
A. E. BULLEY.

Junior Clerk:
I. STANLEY.

* Cert. San. Inst.

The memorandum also calls attention to the new Factory and Workshops Act of 1901, which comes into force on January 1st, 1902, and which requires that:—

"The Medical Officer of Health shall, in his annual report to the Sanitary Authority, report specifically on the administration of this Act in Workshops and Workplaces, and he shall send a copy of his annual report, or so much of it as deals with this subject, to the Secretary of State."

The Municipal Borough of Cardiff originally comprised the Parishes of St. John the [illegible] and St. Mary the Virgin. Under the provisions of the Cardiff Improvement Act of [illegible] boundary of the Borough was extended so as to include the Parish of Roath and that [illegible] of Llandaff known as Canton.

[illegible] Order of the Privy Council, dated 21st October, 1890, the Borough was divided [illegible] Wards.

The following tables, taken from the Census Report of 1901, give the distribution of the [illegible] Municipal Wards, Civil Parishes and Registration Sub-Districts, as compared [illegible] Census of 1891:—

CENSUS, 1901.

TABLE I.—Inhabited Houses and Population enumerated in 1891 and 1901, in the [illegible] Borough of Cardiff:—

	Inhabited Houses.		Population.		Increase or Decrease of Population between 1891 and 1901.	
	1891	1901	1891	1901	Increase	Decrease
[illegible] Borough of Cardiff	20,476	28,009	128,915	164,420	35,505	—

TABLE I.

Inhabited Houses and Population in Registration Sub-Districts enumerated in 1891 and 1901:—

Registration Sub-Districts.	Area in Statute Acres.	Inhabited Houses.		Enumerated Population.		Increase or Decrease of Population between 1891 and 1901.	
		1891	1901	1891	1901	Increase.	Decrease.
[illegible] ...	481	5,838	9,297	35,294	52,585	17,291	—
[illegible] ...	3,832	8,102	8,808	53,824	54,402	578	—
[illegible] ...	2,060	6,536	9,944	39,797	57,433	17,636	—

TABLE IX.

COUNTY BOROUGH OF CARDIFF.

	HOUSES.				POPULATION.		
	Inhabited.	Uninhabited.		Building.	Persons.	Males.	Females.
		In Occupation.	Not in Occupation.				
[illegible] ...	[illegible]	1,105	1,872	157	164,333	81,605	82,728
[illegible]—							
[illegible]	[illegible]	121	670	22	43,256	21,215	22,041
[illegible]	[illegible]	149	451	98	61,022	30,132	30,890
[illegible]	[illegible]	384	377	23	29,704	13,872	15,832
[illegible]	[illegible]	451	374	14	30,351	16,386	13,965
[illegible]—							
[illegible] ...	[illegible]	34	94	12	14,188	7,902	6,286
[illegible]	[illegible]	48	374	21	19,727	9,516	10,211
[illegible]	[illegible]	31	210	5	18,522	9,257	9,256
[illegible]	[illegible]	556	217	20	11,286	5,428	5,858
[illegible] ..	[illegible]	34	217	2	20,584	10,272	10,312
[illegible]	[illegible]	74	167	28	21,124	9,886	11,238
[illegible]	[illegible]	70	175	9	17,121	8,168	8,953
[illegible]	[illegible]	51	176	24	14,685	6,801	7,884
[illegible]	[illegible]	174	126	2	10,320	5,653	4,667
[illegible]	[illegible]	33	116	34	16,856	8,722	8,134

VITAL STATISTICS.

POPULATION.—The preliminary report on the Census of 1901 was issued on the [illegible], and the returns contained in it are subject to revision. In this report, the population [illegible] on the 1st April is given as 164,420, including the shipping population. Upon the [illegible] the actual enumeration of the population at each Census in April, the Registrar-General [illegible] the probable increase which will have taken place in the middle of each succeeding [illegible]. These estimates are based on the assumption that the increase is going on [illegible] only the same rate as it did during the preceding inter-censal period.

This method, as applied to the ten years ending 1901, did not give very accurate results, [illegible] Census returns show that the rate of increase, which had taken place in the decennium [illegible] was not maintained. During this period, there was an increase of the population of [illegible] per cent., this being a greater increase than in any of the 28 large towns, whilst the [illegible] returns show only an increase of 35,505, or 27·5 per cent. during the ten years [illegible]. Consequently, the estimates of population made by the Registrar-General for the [illegible] latter part of the decennium were considerably above the actual figure. It was not [illegible] that the high rate of increase would be maintained, and the results of the recent [illegible] show, as expected, that the estimates made during the past four or five years have been [illegible].

The errors that may arise from the assumption that the same rate of increase continues [illegible] decennium become, of course, more apparent in large towns, where the [illegible] population, owing to the introduction of fresh industries and to other causes, is [illegible] than in small Urban and Rural Districts. The only remedy would seem to be [illegible] Census enumeration, as unless this is done there must of necessity be serious in- [illegible] the vital statistics of large towns, especially towards the end of the intercensal period.

[illegible], however, in the population of 27·5 per cent. may be regarded as satisfactory [illegible] that of other large towns. In the Census returns for 1901, amongst 22 [illegible] having more than 150,000 inhabitants, two only, namely West Ham and [illegible], show a greater rate of increase than Cardiff.

The effect of the over-estimate of the population has been to produce in the death-rates [illegible] figures, which in each case were below the real rates, this error being, of course, [illegible] towards the end of the decennium. The extent of this error is shown on Table [illegible] the corrected rates, based on revised estimates of population, which I have made since [illegible] of the Census of 1901. It should be mentioned that in dealing with death-rates [illegible] communities it is the position of one district, as compared with that of another, that [illegible] regarded as an index of sanitary improvement. In this respect, therefore, the relative [illegible] will remain practically the same, as similiar errors occurred in the estimates [illegible] large towns. The population of the Borough of Cardiff, brought up in the usual [illegible] the middle of the year 1901, is estimated by the Registrar-General as 165,303, and the [illegible] generally given in this report are calculated upon this estimate as rates per 1,000 of [illegible].

The statistical tables in the appendix, forms for which are supplied by the Local [illegible] Board, are the same as those issued last year, but differ considerably from those [illegible]. These tables have, at the suggestion of the Incorporated Society of Medical [illegible] of Health, been substituted for Tables A and B, previously in use. Table I. supplies [illegible] the previous years for the purpose of comparison. Table II. gives the births [illegible] distributed among the localities to which they belong and the corresponding figures [illegible] years. An indication is thus afforded of the effect of the varying conditions of [illegible] upon the mortality, either from all causes or from some particular disease or [illegible] diseases. Table III. provides for the number of notified cases of infectious disease during [illegible], classified according to ages of patients and localities, and also the number of cases [illegible] from each locality. Table IV. gives in a condensed form the particulars [illegible] in the more extended table of the causes of death during the year according to sex and age. [illegible] necessary, and as far as possible, the tables of vital statistics in this Report relating to [illegible] immediate between 1891 and 1901 have been revised in the light of the numbers [illegible] the last Census. This has entailed a considerable amount of re-calculation, and [illegible] the issue of the Report.

TABLE XV.—Births, Deaths, and Natural Increase of Population for Fifty-seven Years—1841.

Year.	Population.	Births.	Deaths.	Excess of Deaths over Births.	Excess of Births over Deaths.
[illegible]	13,385	320	324	4	...
[illegible]	14,212	381	321	...	60
[illegible]	15,039	381	484	153	...
[illegible]	15,866	428	579	151	...
[illegible]	16,693	466	864	395	...
[illegible]	17,520	504	485	...	19
[illegible]	18,354	575	585	...	50
[illegible]	19,724	696	620	...	76
[illegible]	21,094	865	644	...	221
[illegible]	22,464	950	925	...	25
[illegible]	23,834	1,079	641	...	438
[illegible]	25,204	1,227	772	...	455
[illegible]	26,574	1,367	883	...	484
[illegible]	27,944	1,356	753	...	603
[illegible]	29,314	1,336	826	...	510
[illegible]	30,684	1,346	662	...	584
[illegible]	32,054	1,223	837	...	386
[illegible]	32,804	1,267	695	...	373
[illegible]	33,552	1,302	862	...	440
[illegible]	34,300	1,369	932	...	467
[illegible]	35,048	1,382	867	...	515
[illegible]	35,796	1,331	882	...	449
[illegible]	36,544	1,397	873	...	524
[illegible]	37,292	1,387	843	...	544
[illegible]	38,640	1,414	1,005	...	409
[illegible]	38,788	1,406	903	...	503
[illegible]	39,356	1,391	891	...	500
[illegible]	40,284	1,358	916	...	442
[illegible]	41,032	1,430	995	...	435
[illegible]	41,780	1,550	885	...	665
[illegible]	69,850	2,716	1,547	...	1,169
1876	72,438	2,707	1,455	...	1,252
1877	75,026	2,772	1,475	...	1,297
1878	77,614	2,795	1,468	...	1,327
1879	80,202	2,969	1,428	...	1,541
1880	82,790	2,893	1,634	...	1,295
1881	85,378	3,145	1,556	...	1,598
[illegible]	88,603	3,399	1,724	...	1,675
[illegible]	91,204	3,526	1,807	...	1,719
[illegible]	93,468	3,920	2,250	...	1,670
[illegible]	97,034	4,164	2,487	...	1,683
[illegible]	100,736	4,270	2,269	...	2,001
[illegible]	104,580	4,277	2,280	...	1,997
[illegible]	108,570	4,409	2,212	...	2,197
[illegible]	112,712	4,361	2,190	...	2,172
[illegible]	117,012	4,600	2,469	...	2,131
[illegible]	130,283	4,739	2,873	...	1,866
[illegible]	132,895	4,776	2,560	...	2,216
[illegible]	136,168	5,110	2,794	...	2,316
[illegible]	139,519	5,100	2,415	...	2,685
[illegible]	142,958	5,321	2,840	...	2,481
[illegible]	146,479	5,591	2,795	...	2,796
1897	150,087	5,279	2,534	...	2,745
[illegible]	153,783	5,520	2,627	...	2,893
[illegible]	157,414	5,309	2,858	...	2,451
[illegible]	161,452	5,798	2,667	...	3,131
[illegible]	165,308	5,206	2,596	...	2,610

[illegible] Cotton and Leath taken into the Borough.

[illegible] Populations since 1891 have been revised in accordance with Census Returns, 1901.

TABLE V.

COUNTY BOROUGH OF CARDIFF.

* Density of Population.

Year.	Persons per Acre.
1891	20·4
1892	20·8
1893	21·3
1894	21·8
1895	22·4
1896	22·9
1897	23·5
1898	24·1
1899	24·7
1900	25·3
1901	25·9

* Calculated on the basis of the [illegible] enumerations, and on an area of [illegible] acres.

DEATH-RATE.—Death-rates furnish sufficiently accurate tests of the [illegible] of districts; at any rate no more trustworthy test is available for comparing the [illegible] progress of one town with another, and they may be dealt with for this purpose, [illegible] certain possible facilities are kept in view. Very little value can be attached to death-[illegible] for short periods, owing to the liability to fluctuations from accidental causes and to [illegible] upon which statistics for small towns are based. A reference to the [illegible] annual rate of mortality at various age groups shows a very considerable difference in the [illegible] in those groups. It is of little use, therefore, comparing the vital statistics of districts [illegible] the proportion of the total population living at different age-groups differs widely. The [illegible] to sex distribution, as at nearly all ages the death-rate of males is higher than that [illegible] In comparing vital statistics of different districts, the age and sex distribution of the [illegible] is of the utmost importance in determining the [illegible]. [illegible] to incorrect estimates of population, unusually high or low death-rates [illegible] in some cases be due to some peculiarity in the age or sex distribution of the population. [illegible]-General, in his Annual Summary, issues a table in which the death-rates in the [illegible] towns are corrected for age and sex distribution, and to which an explanatory note is [illegible].

With respect to the Table, he points out that "although it is doubtless true that the [illegible] death-rates of towns or other areas cannot safely be used for accurate comparison [illegible] between such towns or areas in respect of healthiness without further correction, yet they serve [illegible] a very valuable approximate indication, for if the Column 3 be compared with Column 4, it [illegible] be seen that, were they the towns be arranged according to their recorded [illegible] [illegible] corrected death-rates, the order will scarcely be changed. The corrections simply alters [illegible] degree of difference between the towns, leaving the position in which they stand to each [illegible] slightly changed."

No.	Standard Death-rate *	Factor for correction for Sex and Age distribution †	Recorded Death-rate, 1901	Corrected Death-rate, 1901 ‖	Comparative Mortality Figure, 1901 §
England and Wales	19·15	1·0000	16·90	16·90	1,000
[illegible] the 33 Towns ...	19·17	0·9835	15·99	15·73	931
... ...	17·72	1·0806	18·59	20·09	1,189
... ...	16·37	1·0424	12·86	13·41	793
... ...	18·45	1·0879	15·95	16·55	979
... ...	18·94	1·0110	16·53	16·71	989
... ...	17·36	1·1031	15·18	16·75	991
... ...	17·64	1·0855	15·88	17·24	1,020
... ...	19·70	0·9720	17·89	17·39	1,029
... ...	17·16	1·1159	15·76	17·59	1,041
... ...	18·30	1·0464	16·89	17·67	1,046
... ...	19·09	0·9579	18·71	17·92	1,060
... ...	17·28	1·1082	16·39	18·16	1,075
... ...	18·73	1·0224	17·85	18·25	1,080
... ...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
... ...	13·[illegible]	1·1891	16·81	19·15	1,133
... ...	17·7[illegible]	1·0788	17·95	19·36	1,146
... ...	16·47	1·1627	16·68	19·39	1,147
... ...	18·23	1·0504	18·62	19·56	1,157
... ...	17·81	1·0752	18·53	19·92	1,179
... ...	17·53	1·0924	18·65	20·37	1,205
... ...	17·42	1·0993	18·72	20·58	1,218
... ...	[illegible]	1·1331	18·24	20·67	1,223
... ...	17·28	1·1082	19·27	21·36	1,264
... ...	18·67	1·1487	19·01	21·84	1,292
... ...	17·05	1·1231	19·50	21·90	1,296
... ...	16·72	1·1453	19·64	22·[illegible]	1,331
... ...	18·25	1·0493	21·43	22·[illegible]	1,331
... ...	17·33	1·1050	20·52	22·67	1,341
... ...	17·22	1·1120	20·41	22·70	1,343
... ...	17·83	1·0740	21·59	23·19	1,372
[illegible]-[illegible]-[illegible]	17·58	1·0892	21·89	23·84	1,411
... ...	17·42	1·0993	21·96	24·14	1,428
... ...	17·08	1·1244	21·66	24·35	1,441
... ...	17·44	1·0980	22·30	24·49	1,449
... ...	16·90	1·1331	22·10	25·04	1,482

* The standard death-rate signifies the death-rate at all ages calculated on the hypothesis that the rates at each of the periods of life in each town were the same as in England and Wales during the ten years 1881-90, the death-rate of England and Wales during that period having been 19·15 per 1,000.

† The factor for correction $\left\{ = \frac{19{\cdot}15}{\text{Standard death-rate}} \right\}$ is the figure by which the recorded death-rate should be multiplied in order to correct for variations of sex and age distribution.

‖ The corrected death-rate is the recorded death-rate multiplied by the factor for correction.

§ The comparative mortality figure represents the corrected death-rate in each town compared with the recorded death-rate in England and Wales in 1901 taken at 1,000.

TABLE VII.

MARRIAGES.—The number of Marriages registered during the year 1901 was [illegible], being at the rate of 19·8 persons married per 1,000 persons living.

A return of the number of Marriages in the Borough of Cardiff, together with the rate per 1,000 of the population, is given below:—

Year.	Number of Marriages.	Rate per 1,000 persons living.
1891	1,651	25·3
1892	1,526	22·9
1893	1,447	21·2
1894	1,480	21·2
1895	1,271	17·7
1896	1,721	23·4
1897	1,687	22·4
1898	1,525	19·8
1899	1,719	21·8
1900	1,706	21·1
1901	1,641	19·8

During the year 1901 the Births registered in the Borough were 5,206; of these 2,588 were males and 2,618 were females.

The number corresponded to an annual birth-rate of 31·4 per 1,000 persons living, as compared with 28·5, the birth-rate in England and Wales, and with 29·4, the birth-rate in the [illegible] towns for the same period.

Table IX. shows the birth-rate in Cardiff, as compared with that of the large towns during the past ten years, from which it will be seen that the birth-rate in Cardiff was in each year considerably higher than the average rate in these towns.

The average annual birth-rate in Cardiff during the ten years 1891—1900 was 29·7 per 1,000.

TABLE VIII. shows the number of legitimate and illegitimate births, male and female, and the number of deaths amongst children under one year of age in each Ward and in the Union Workhouse during the year 1901:—

WARDS.	Legitimate.		Illegitimate.		Total.		Total.	Deaths under One Year.
	M.	F.	M.	F.	M.	F.		
[illegible] Ward ...	140	123	2	4	142	127	269	58
.. ...	135	137	2	2	137	139	276	50
.. ...	342	297	2	2	344	299	643	81
.. ...	300	289	4	3	304	292	596	77
.. ...	181	200	3	...	184	200	384	66
.. ...	142	140	1	3	143	143	286	67
.. ...	401	402	4	7	405	409	814	109
.. ...	213	236	2	2	215	238	453	58
.. ...	384	412	4	2	388	414	802	107
.. ...	294	322	1	1	295	323	618	91
Union Workhouse ...	8	10	23	24	31	34	65	11
TOTAL	2,540	2,568	48	50	2,588	2,618	5,206	775

IX.—Annual Birth-rate in Cardiff compared with that in the large towns ... years ending 19...:—

Towns.	Annual ... per 1,000 living.									
	...	1893	1894	1895	1896	1897	1898	1899	1900	1901
...	...	31·6	30·1	30·...	...	...	29·5	29·4	29·6	29·0
...	...	34·3	34·0	34·...	...	...	34·3	34·7	35·6	35·2
...	...	25·2	25·0	25·...	...	...	25·1	25·1	26·9	26·4
...	...	25·1	25·8	25·...	...	...	24·8	24·9	25·6	24·2
...	...	27·8	27·6	27·...	...	...	28·7	29·2	30·7	27·9
...	...	28·3	28·8	28·7	28·8	28·5	28·7	28·8	28·4	26·8
...	...	28·2	28·2	28·...	...	...	28·6	28·2	27·8	27·0
...	...	32·3	32·...	32·...	...	...	28·9	27·7	29·7	30·1
...	...	34·1	34·1	33·...	...	...	33·8	35·3	37·5	31·7
...	...	31·7	31·...	32·...	...	...	34·0	34·3	32·7	32·1
...	...	29·8	29·...	30·...	...	...	29·0	29·1	28·4	28·4
...	...	31·5	31·...	30·...	...	...	29·6	29·4	28·2	29·0
...	...	28·6	28·7	28·9	28·9	28·9	28·9	28·9	27·7	28·4
...	...	29·3	29·1	28·0	27·1	27·1	28·1	27·9	27·9	27·8
...	...	30·6	30·7	30·7	31·6	30·4	29·9	29·0	29·0	29·0
...	...	35·4	34·...	34·...	35·3	35·2	35·6	36·0	36·0	32·1
...	...	31·5	32·...	31·...	31·5	31·0	29·9	30·7	29·7	27·5
...	...	32·0	32·7	32·...	33·2	32·7	32·6	32·3	32·3	29·1
...	...	34·3	34·7	34·...	35·1	34·7	33·9	33·1	33·1	29·2
...	...	27·2	27·2	27·2	27·2	27·1	25·3	24·8	25·1	24·6
...	...	32·2	32·1	32·...	31·3	27·1	27·1	25·3	25·3	27·4
...	...	28·8	28·...	28·...	27·7	27·7	27·1	27·0	25·1	26·5
...	...	32·1	32·1	32·...	31·...	31·0	31·0	30·2	30·0	30·4
...	...	20·2	21·...	21·...	21·1	22·5	23·0	22·8	22·8	22·7
...	...	23·7	23·4	23·4	23·5	22·5	23·0	23·1	23·1	22·5
...	...	26·7	26·1	25·2	24·3	24·0	23·4	23·1	23·1	23·1
...	...	32·2	32·...	32·...	31·7	31·3	31·2	30·6	30·4	30·0
...	...	33·4	33·...	33·...	33·9	33·4	33·0	34·6	34·2	33·0
...	...	32·4	32·2	32·...	33·3	33·4	33·4	34·3	34·9	33·0
...	...	35·2	35·...	35·...	35·1	35·2	35·6	35·2	35·7	35·8	35·5
...	...	34·2	34·...	34·...	35·8	35·8	35·5	36·6	36·3	36·8
...-Tyne	...	31·0	31·2	31·...	31·3	31·3	31·7	31·4	32·4	32·1
...	...	30·5	31·5	30·5	31·1	30·1	30·9	33·7	33·2	31·4
...	...	30·9	31·3	30·7	31·...	30·7	30·7	30·3	30·2	29·4

DEATHS.—The deaths recorded during the year 1901 amounted to 2,653. So far as it ... to obtain the information, this number includes the deaths of persons resident ... and who died in Public Institutions elsewhere, but is exclusive of those brought into ... from outside and dying in Public Institutions within the Borough.

... deaths were equal to an annual death-rate of 15·6 per 1,000 persons living, which ... closely with that published by the Registrar-General, *i.e.*, 15·7.

... "natural increase" of the population, or the excess of births over deaths, amounted ... 2,...

... already referred to the influence on an over-estimate of the population in ... death-rate, and it is therefore with satisfaction that I have to record that, notwithstanding ... revised estimate of the population in accordance with the recent census, the death-... still one of the lowest amongst the large towns, and compares very favourably with ... rates throughout the country. It is also the lowest death-rate in Cardiff during the ...

Year 1901.	Death-rate from all causes.
England and Wales	16·9 per 1,000 persons living.
Thirty-three great Towns ...	18·6 .. ..
Sixty-seven other large Towns ..	17·1 .. ..
Cardiff	16·0 .. ..

According to the returns of the Registrar-General, the death-rates in the large towns [illegible] 12·8 per 1,000 in Croydon, 15·1 in Derby, 15·7 in Cardiff, 15·8 in Leicester, and 15·9 [illegible], to 21·9 in Preston, 22·1 in Manchester, and 22·3 in Liverpool.

TABLE X.—Annual Death-rate per 1,000 of the 33 large Towns in England and [illegible] 10 years 1892-1901 inclusive :—

33 Large Towns.	Annual Death-rate per 1,000 living.									
	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	[illegible]	1
[illegible]	20·6	21·3	17·8	19·8	1[illegible]	18·2	18·7	19·8	18·[illegible]	17
[illegible]	18·6	18·7	16·2	17·9	1[illegible]	15·7	15·[illegible]	16·7	15·9	18·0
[illegible]	15·8	16·[illegible]	13·2	1[illegible]	14·2	13·1	13·[illegible]	15·0	14·[illegible]	12·0
[illegible]	19·2	18·[illegible]	16·4	18·9	1[illegible]	15·1	16·[illegible]	19·0	17·[illegible]	16·5
[illegible]	18·5	18·2	15·2	17·8	1[illegible]	16·[illegible]	16·[illegible]	19·7	17·[illegible]	17·9
[illegible]	18·8	21·2	18·[illegible]	20·1	19·[illegible]	19·0	19·[illegible]	21·7	20·[illegible]	17·9
[illegible]	19·5	18·[illegible]	17·5	18·1	16·[illegible]	17·2	17·2	18·2	16·7	16·0
[illegible]	20·4	19·[illegible]	17·0	18·3	16·8	15·8	18·7	18·1	17·[illegible]	18·6
[illegible]	21·5	23·[illegible]	20·7	24·4	20·[illegible]	22·5	21·[illegible]	21·8	22·[illegible]	16·9
[illegible]	20·4	22·2	18·[illegible]	2[illegible]·3	20·8	21·6	20·[illegible]	21·8	21·[illegible]	20·5
[illegible]	20·0	19·[illegible]	18·7	19·3	17·[illegible]	18·[illegible]	19·[illegible]	17·3	17·[illegible]	18·7
[illegible]	18·2	20·[illegible]	14·7	17·2	16·7	17·[illegible]	16·[illegible]	17·7	17·[illegible]	15·9
[illegible]	18·7	18·5	17·2	19·0	17·5	18·8	17·7	20·0	19·[illegible]	18·5
[illegible]	19·3	18·2	15·[illegible]	16·7	15·7	16·[illegible]	16·8	16·9	17·5	15·2
[illegible]	19·6	20·5	18·1	19·5	19·2	18·3	17·[illegible]	19·2	16·[illegible]	18·7
[illegible]	24·7	27·[illegible]	23·8	28·8	22·7	24·4	24·[illegible]	26·4	25·7	22·3
[illegible]	22·8	24·[illegible]	18·8	24·0	20·7	22·[illegible]	19·[illegible]	19·9	19·[illegible]	18·2
[illegible]chester	23·8	24·9	20·4	25·2	22·3	23·1	21·9	21·6	24·[illegible]	22·1
[illegible]	24·6	24·[illegible]	21·[illegible]	25·6	22·[illegible]	23·9	22·7	23·8	25·[illegible]	21·7
[illegible]	22·0	21·0	18·6	22·0	20·3	19·2	17·6	20·5	19·[illegible]	19·6
[illegible]y	20·4	21·2	18·7	23·4	17·5	19·3	16·3	19·6	16·[illegible]	19·0
[illegible]ham	21·7	23·[illegible]	17·[illegible]	24·3	17·9	19·3	18·4	19·1	20·3	19·5
[illegible]	24·1	26·4	20·8	23·9	20·8	24·4	19·3	22·8	24·[illegible]	21·0
[illegible]sfield	18·1	17·2	15·8	16·9	16·5	16·4	15·9	16·2	16·[illegible]	16·7
[illegible]y	19·5	17·[illegible]	16·5	19·3	17·3	16·5	17·9	18·3	18·1	16·4
[illegible]ol	18·0	21·0	17·0	19·9	16·5	17·5	17·6	18·4	16·[illegible]	16·8
[illegible]	19·8	22·3	17·9	20·5	18·8	19·9	19·2	19·1	20·[illegible]	19·3
[illegible]ol	20·8	22·3	17·8	20·5	19·3	21·2	20·2	22·2	22·[illegible]	20·4
[illegible]	19·6	21·8	17·4	20·8	18·9	18·6	18·[illegible]	19·3	19·7	18·6
[illegible]land	20·9	22·5	20·8	21·8	19·8	19·7	22·6	21·5	21·[illegible]	21·4
[illegible]ead	18·9	19·3	17·7	19·6	19·[illegible]	18·3	20·[illegible]	18·8	19·[illegible]	21·6
[illegible]-on-Tyne ...	19·7	21·[illegible]	18·3	20·5	18·[illegible]	19·[illegible]	21·[illegible]	21·6	9·[illegible]	21·9
[illegible]	19·2	20·[illegible]	17·3	19·9	19·[illegible]	16·[illegible]	17·[illegible]	18·[illegible]	16·[illegible]	15·7
Large Towns ...	20·7	21·[illegible]	18·[illegible]	20·7	18·[illegible]	19·[illegible]	19·[illegible]	20·[illegible]	19·[illegible]	18·6

[illegible] the deaths [illegible] the year [illegible] during the [illegible] The [illegible] the seven diseases [illegible] compared with the average [illegible] 1891-1900 :—

	Death Rates per 1,000 Persons Living.	
	1901.	1891-1900.
[illegible]	1·71	1·64
[illegible]	1·26	1·38
[illegible]	1·09	1·09
... ...	1·05	1·49
Cough	0·52	0·47
... ...	0·01	0·41
[illegible]	0·47	0·45
[illegible]	0·45	0·79
[illegible] Fever	0·17	0·15
[illegible]	0·45	0·63

On examining the Statistics in the several Registration Sub-districts within the Borough [illegible] seen that the general death-rate in each of these localities was respectively :—East [illegible] ; West Cardiff, 13·2 ; Central Cardiff, 15·0 per 1,000 persons living in each sub-district excluding in each case the deaths in Public Institutions. In the 10 Municipal [illegible] the death-rates varied from 11·0 per 1,000 in the Riverside Ward, 11·8 in the Cathays [illegible] 1·9 in the Roath Ward to 16·7 in the South Ward, and 17·3 in the Central Ward.

The diseases of the respiratory organs (*i.e.*) chiefly Pneumonia and Bronchitis, caused in [illegible] 382 deaths, equal to an annual death-rate of 3·2 per 1,000, the highest being 4·1 in [illegible] Ward, and the lowest 2·1 in the Riverside Ward.

Including in the case of the entire Borough the deaths in Public Institutions—of the [illegible] from these causes 26 occurred in the Union Workhouse, and 6 in other Institutions, [illegible] accounted for in the rates for the several Wards.

INFANT MORTALITY.—The rate of Infant Mortality as measured by the proportion [illegible] of infants under one year of age to 1,000 births registered was 148, as compared with [illegible] the year [illegible] and with 161 the average in 10 years, 1891-1900. In the large towns the [illegible] mortality in 1901 corresponded to 168. Deaths of infants under one year of age [illegible] ranging from 127 in Halifax, 131 in Bristol, 132 in Huddersfield, and 141 in [illegible] in Sheffield, 204 in Salford, 216 in Preston, and 226 in Burnley.

[illegible] Registration Sub-districts the infant mortality ranged from 135 in East Cardiff, [illegible] Cardiff, to 162 in Central Cardiff.

The rates in the sub-districts do not include the infants who died in the Cardiff Union [illegible] corresponding to a proportion of 169 under one year of age to 1,000 births in that [illegible] during the year.

The chief causes of death amongst infants were as follows :—

CAUSES OF DEATH.	Number of Deaths under 1 Year of Age.
[illegible] Enteritis	100
Premature [illegible]	84
Convulsions	69
Bronchitis	[illegible]
Pneumonia	78
[illegible]	42

The following table shows the rate of infant mortality which has prevailed in the large ... in past years, from which it will be seen that the rate of infant mortality in Cardiff ... remarkably low. As mentioned in previous reports the rate of infant mortality expressed ... indicated is a valuable test of the sanitary condition of a district, and is not liable to ... a calculation based on an uncertain estimate of the population. From the foregoing ... will be noticed that the diseases which proved most fatal to infants were of a preventable ... and were probably connected with improper feeding, exposure to cold, or want of cleanliness.

The infant mortality throughout the country for the year, 1901, was as follows:—

	Deaths under 1 Year to 1,000 Births Registered.
England and Wales	151
33 Great Towns	168
57 other Large Towns	163
Cardiff	148

The influence of weather and season upon the mortality in the district is shewn in the ... by each quarter of the year. Of the 141 deaths under one year of age from Bronchitis ... during the year 109, or 77 per cent., occurred in the first and fourth quarter of ... Of the 141 deaths at that age from Diarrhœa and Enteritis 61 occurred in the third or ... quarter of the year.

Large Towns.	Deaths under one year to 1,000 Births registered.									
	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901
... ...	155	164	143	166	161	158	167	167	160	149
... ...	158	170	138	168	165	171	170	197	180	172
... ...	123	155	121	134	150	134	150	154	132	142
... ...	151	169	138	164	135	142	181	173	166	161
... ...	159	164	161	175	154	168	156	197	155	168
... ...	187	169	169	178	178	183	170	190	175	149
... ...	147	141	150	143	142	148	164	158	133	131
... ...	175	170	163	178	161	139	184	166	175	174
... ...	172	208	166	218	184	217	200	184	206	168
... ...	166	168	163	183	197	214	191	191	199	187
... ...	182	195	164	190	164	196	192	179	178	183
... ...	193	220	162	203	187	205	191	195	175	175
... ...	167	170	174	190	168	205	178	210	196	193
... ...	173	156	123	161	151	167	169	162	174	154
... ...	168	196	143	174	177	162	186	186	160	181
... ...	181	211	179	210	173	200	184	198	186	188
... ...	180	199	162	212	168	186	168	181	171	172
... ...	179	203	160	203	176	194	197	206	189	199
... ...	185	210	174	231	199	220	212	209	207	204
... ...	177	187	161	190	184	183	175	198	172	173
... ...	192	228	170	242	170	219	195	209	205	226
... ...	193	241	169	226	171	207	203	189	220	193
... ...	216	230	217	248	208	268	225	255	229	216
... ...	150	141	160	158	136	180	158	152	162	132
... ...	169	178	135	153	149	139	163	159	162	127
... ...	155	197	145	203	143	178	185	181	141	168
... ...	169	206	155	191	169	191	182	171	183	188
... ...	171	201	157	197	173	197	195	194	200	201
... ...	166	206	142	203	178	178	182	175	183	175
... ...	157	188	167	189	158	169	202	175	169	182
... ...	153	170	152	186	172	173	208	177	169	197
... ...	151	174	157	186	165	177	190	183	170	178
... ...	163	179	143	179	165	159	179	164	161	149
33 Towns	164	181	152	182	167	176	178	181	172	168

[illegible]. The subjoined table shows the number of deaths from each of these [illegible] the year 1901 :—

	No. of Deaths.
[illegible]	1
[illegible]	3
[illegible]	–
Whooping Cough	86
[illegible] and Membranous Croup	78
Enteric Fever	11
Diarrhœa	76

[illegible] deaths from zymotic diseases were equivalent to an annual death-rate of 1·70 [illegible] the population, as compared with 2·06, the rate in the year 1900.

[illegible] the country the zymotic death-rate for the year 1901 was as follows :—

	Death-rate from chief zymotic diseases.
[illegible] and Wales	1·05 per 1,000 persons living
[illegible] Towns	2·38 ,, ,,
[illegible] Large Towns	2·24 ,, ,,
[illegible]	1·70 ,, ,,

[illegible] from the zymotic diseases during the year under consideration in the [illegible] ranged from 1·38 per 1,000 in Huddersfield, 1·40 in Halifax, 1·52 in Croydon, and [illegible] to 3·73 in Sunderland, 4·10 in Sheffield, 4·11 in West Ham, and 4·28 in [illegible].

[illegible] the zymotic death-rate varied from 1·1 in the East Registration Sub-district, [illegible] in the Central, and 2·6 in the West Sub-district.

The [illegible] incidence of infectious disease, as shown by the number of notifications [illegible] the year, was as follows :—West Sub-district, 884 ; East Sub-district, 848 [illegible], giving a proportional incidence of 15·2 per 1,000 of the population in [illegible] Sub-district, 15·8 in the East Sub-district, and 11·3 in the Central Sub-[illegible]. Of the diseases notified scarlet fever showed the highest number. Of the 1,862 [illegible] of these 597 occurred in the East, 425 in the West, and 840 in the Central [illegible].

TABLE XII.—Gives the population of each year, the annual deaths from all causes [illegible] seven chief zymotic diseases, and the death-rates from 1852 to 1901 inclusive, in the [illegible] of Cardiff:—

Year	Population.	All Causes. No. of Deaths.	Death Rates per 1,000.	Mean of 10 years.	Seven Chief Zymotic Diseases. No. of Deaths.	Death Rates per 1,000.	Mean of 10 years.
[illegible]	19,724	620	31·4		175	8·8	
[illegible]	[illegible]	644	30·5		129	6·1	
[illegible]	[illegible]	925	40·1		353	15·7	
[illegible]	[illegible]	641	26·9		665	2·7	
[illegible]	[illegible]	772	30·6	29·2	136	5·3	8·5
[illegible]	23,574	683	33·2		234	8·8	
[illegible]	[illegible]	753	23·9		128	4·5	
[illegible]	[illegible]	826	28·1		212	7·2	
[illegible]	[illegible]	632	21·5		95	3·0	
[illegible]	[illegible]	837	26·1		100	3·1	
[illegible]	[illegible]	695	21·2		132	4·0	
[illegible]	[illegible]	862	25·7		268	7·0	
[illegible]	[illegible]	932	27·1		250	7·3	
[illegible]	[illegible]	867	24·7		161	4·5	
[illegible]	[illegible]	882	24·6	24·2	192	5·3	4·6
[illegible]	33,544	873	23·8		116	3·1	
[illegible]	[illegible]	843	22·6		109	2·9	
[illegible]	[illegible]	1,005	26·4		156	4·1	
[illegible]	[illegible]	903	23·2		133	3·4	
[illegible]	[illegible]	891	22·5		158	3·9	
[illegible]	[illegible]	916	22·7		234	5·8	
[illegible]	[illegible]	995	24·2		103	2·5	
[illegible]	[illegible]	885	21·2		154	3·6	
[illegible]	[illegible]	1,547	22·1		294	4·2	
[illegible]	72,483	1,455	20·8	20·0	339	4·6	3·2
[illegible]	[illegible]	1,475	19·6		255	3·5	
[illegible]	[illegible]	1,468	18·9		197	2·5	
[illegible]	[illegible]	1,428	17·6		137	1·7	
[illegible]	[illegible]	1,684	19·7		306	3·7	
[illegible]	[illegible]	1,556	18·2		164	1·9	
[illegible]	[illegible]	1,724	19·4		293	3·3	
[illegible]	91,204	1,807	19·8		253	2·7	
[illegible]	[illegible]	2,250	24·3		476	5·0	
[illegible]	97,034	2,481	25·5		521	5·3	
[illegible]	100,795	2,269	22·5	21·5	332	3·2	3·3
[illegible]	104,580	2,280	21·8		278	2·6	
[illegible]	108,570	2,212	20·3		324	2·9	
[illegible]	112,712	2,190	19·4		248	2·1	
[illegible]	117,012	2,469	21·1		282	2·4	
[illegible]	120,288	2,873	22·0		272	2·0	
[illegible]	132,895	2,560	19·2		371	2·7	
[illegible]	136,108	2,794	20·4		408	2·9	
[illegible]	139,519	2,415	17·3		257	1·8	
[illegible]	142,958	2,840	19·9		324	2·2	
[illegible]	146,479	2,795	19·0	17·9	362	2·4	2·3
[illegible]	150,087	2,584	16·8		371	2·4	
[illegible]	153,788	2,627	17·0		396	2·5	
[illegible]	157,414	2,858	18·1		384	2·4	
[illegible]	161,452	2,667	16·5		402	2·4	
[illegible]	165,926	2,653	16·0		284	1·7	

* Canton and Roath taken into the Borough.

Populations and death-rates as estimated by the Registrar-General previous to the [illegible] of 1901:—

Estimated Population.		Death-rate.	Year.	Estimated Population.		Death-rate.
... 126,191	...	18·7 per 1,000	1897	... 170,063	...	14·9 per 1,000
... 142,997	...	19·6 ,,	[illegible]	... [illegible]	...	,,
... [illegible]	...	16·2 ,,	1899	... 185,826	...	15·3 ,,
... [illegible]	...	18·2 ,,	1900	... 194,247	...	13·7 ,,
... 162,[illegible]	...	16·8 ,,				

LOCALITIES.	Population, 1901.	Area in Acres.	Persons per Acre.	Total Births.	Birth-rate.	Total Deaths.	Deaths at all Ages.	Death-rate.	Deaths under 1 year of age.	Infantile Mortality.	Deaths under 5 years of age.	Mortality under 5 years.	Deaths from Measles.	Measles Death-rate.	Deaths from Scarlet Fever.	Scarlet Fever Death-rate.	Deaths from Diphtheria.	Diphtheria Death-rate.	Deaths from Whooping Cough.	Whooping Cough Death-rate.	Deaths from Enteric Fever.	Enteric Fever Death-rate.	Deaths from Diarrhœa.	Diarrhœa Death-rate.	Deaths from Phthisis.	Phthisis Death-rate.	Deaths from other Tubercular Diseases.	Other Tubercular Death-rate.	Deaths from Cancer.	Cancer Death-rate.	Deaths from Violence.	Violence Death-rate.	Deaths from all other Diseases.	All other Death-rate.
Borough of Cardiff ...	165,393	6,[illegible]	25	5,206	31·4	2,[illegible]	15·4	113	284	1·71	1	0·00	3	0·01	29	0·17	78	0·47	86	0·52	11	0·06	...	...	76	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Registration Sub-District: Canton Ward ...	19,727	...	...	814	41·2	275	13·9	133	26	1·3	...	...	...	...	2	0·1	6	0·3	8	0·4	...	...	...	...	10	0·5	13	0·6	14	0·7	59	2·9
Riverside Ward ...	17,121	...	...	286	16·7	199	11·6	231	17	0·9	...	...	...	...	...	..	3	0·1	7	0·4	1	0·05	...	...	6	0·3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Georgetown Ward	20,584	...	...	802	38·9	302	14·6	133	51	2·6	...	...	2	0·09	6	0·2	12	0·5	23	0·1	1	[illegible]	...	...	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
East Cardiff	57,932	2,060	28	1,902	32·8	766	13·2	148	97	1·6	...	...	2	0·03	8	0·1	21	0·3	38	0·6	2	0·03	...	...	26	0·4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Registration Sub-District: South Ward ...	10,329	...	...	276	26·7	173	16·7	181	19	1·8	...	...	...	...	1	0·09	10	0·9	8	0·7	...	...	...	...	...	...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Central Ward ...	11,2[illegible]	...	...	269	23·8	195	17·3	215	13	1·1	...	...	...	...	1	2·08	1	0·08	1	0·0[illegible]	1	0·0[illegible]	...	...	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Cathays Ward ...	18,5[illegible]	...	...	643	34·7	221	11·8	125	28	1·5	...	...	...	...	...	...	5	0·2	15	0·8	1	0·05	...	...	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Adamstown ...	14,188	...	...	384	27·0	229	16·1	171	20	1·4	...	...	...	...	2	0·1	4	0·2	7	0·4	2	[illegible]	...	...	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Central Cardiff	54,402	3,832	14	1,572	28·8	818	15·0	162	80	1·4	...	...	...	...	4	0·07	20	0·3	31	0·5	1	0·0[illegible]	...	...	24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Registration Sub-District: Splott Ward ...	16,[illegible]56	...	...	618	36·6	225	13·3	147	25	1·4	...	...	...	...	1	0·05	1	0·5	10	0·5	1	0·05	...	...	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Roath Ward ...	11,605	...	...	453	31·6	175	11·9	198	11	0·7	...	...	...	...	2	0·1	2	0·1	1	0·0[illegible]	...	...	...	...	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Park Ward ...	21,[illegible]2[illegible]	...	...	596	28·2	260	12·3	129	24	1·1	...	...	...	...	3	0·1	5	0·2	6	0·2	...	...	...	...	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
West Cardiff	53,111	481	110	1,667	31·3	660	12·4	135	69	1·1	...	...	...	...	6	0·1	8	0·1	17	0·3	1	0·01	...	...	23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Infectious Diseases Hospital...	...	...	...	...	...	52	...	...	46	...	1	0·00	1	...	11	...	20	...	...	...	4	...	...	...	...	..	1	...	...	..	7	...
Union Workhouse ...	...	...	...	65	...	222	...	169	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	4	...	46	...	28	...
Infirmary	...	...	...	...	...	77	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...	1	...	7	...
Seamen's Hospital ...	...	...	...	..	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE XIV.

Cases of Infectious Diseases notified in the Cardiff Urban Sanitary District during the year under the Infectious Disease Notification Act, 1889:—

	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901
... ...	9	5	4	10	1	45	7	...	...	4	8
... 83	67	155	462	326	229	296	512	940	628	706	724
... 9	3	9	17	17	19	10	4	20	12	8	10
... 365	685	1,851	816	577	484	874	758	332	184	383	1,362
... 152	130	118	105	62	79	74	117	80	64	43	7
... ...	...	...	41	1	...	1	...	...	...	4	..
... 45	52	95	152	135	132	134	163	133	176	106	152
4	10	12	24	19	17	21	12	13	13	15	16
... 608	956	2,245	1,621	1,147	961	1,455	1,573	1,523	1,107	1,321	2,279

SMALL-POX.—Nine cases of Small-Pox occurred in the Borough during the year. Seven of these cases, including one which terminated fatally, came under observation in the first quarter of the year, and the other two in the second quarter.

On the 15th March my attention was called by the District Medical Officer to a sailor living in a house in Bridgend Street suffering from Small-pox of a severe hæmorrhagic type. He was removed to the Small-pox Hospital, where he died a few days after admission.

On making an inspection of the premises on the above-named date, I found two other persons there suffering from the same disease—both children of the occupier of the house, one a girl aged 14 years, the other a child four years old. These cases were also removed to the Hospital without delay. The source of infection in these cases was not ascertained with absolute certainty, but in all probability the disease was contracted from a lodger, a sailor, who arrived at the house in Bridgend Street on February 9th, and remained there until February 25th, when he left for London, and visited a medical practitioner living in the neighbourhood of the London Docks. The nature of the illness for which he sought medical advice did not transpire, but I ascertained subsequently that the vessel which he left the day before arriving in Cardiff had cases of Small-pox on board during the voyage.

These three persons had been suffering from Small-pox for four or five days before they came under observation, and during this time there were many opportunities for the transmission of infection to others. In this way four other persons were infected.

A daily visit was paid to all persons who had been in contact with the patients, and on the 27th March three other inmates of the house were found to be suffering from the disease in a mild stage (the occupier and two lodgers). They were immediately removed to the Hospital. The inmates of the house had been re-vaccinated on March 15th, but as they had been previously exposed to infection for four or five days, the operation did not protect them. On the 28th March my attention was called by a medical practitioner to another person infected with Small-pox from the same source. An insurance agent, living in Glenroy Street, visited the house in Bridgend Street on March 14th, and remained some time in the room with the infected persons. His name had been accidentally omitted from the list of persons who had been in

the infection, and he was not therefore visited with the others, and so escaped about the second day of the appearance of the eruption. The only other inmates of the man's wife and infant. The former had previously suffered from Small-pox, but was vaccinated. Fortunately no further spread of the infection occurred from these cases.

On the 1st June the District Medical Officer for Roath notified two cases of Small-pox occupied by some gipsies, located on some spare ground in that district. The persons with the disease were a woman of about thirty years of age and an infant. No trace of the source of infection in these cases could be discovered. The remaining occupants of the encampment on this land were re-vaccinated and visited daily for a fortnight. The infected bedding, quantity of old clothes and rags were burned on the spot, and no fresh cases occurred.

The following particulars were obtained as to the condition of these small-pox patients with respect to vaccination :—

Case.	Date.	Vaccinated or Unvaccinated.
No. 1 ...	15th March ...	Unvaccinated; terminated fatally.
,, 2 ...	,, ,, ...	Vaccinated in infancy; mild case.
,, 3 ...	,, ,, ...	Unvaccinated; severe confluent case.
,, 4 ...	27th March ...	Vaccinated in infancy.
,, 5 ...	,, ,, ...	,, ,,
,, 6 ...	,, ,, ...	,, ,,
,, 7 ...	,, ,, ...	,, ,,
,, 8 ...	1st June ...	Unvaccinated.
,, 9 ...	,, ,, ...	,,

In no disease is hospital isolation of such paramount importance as in small-pox. Attention to the history of this disease in other places, and in Cardiff in times when hospital isolation was either entirely absent or quite inadequate, we may safely assume that our comparative immunity from the disease during the year under consideration and also during recent years has been due to the fact that every case of small-pox which has occurred has been promptly removed to hospital as soon as it was discovered. The most recent outbreak of small-pox in Cardiff previous to the provision of adequate hospital accommodation occurred in the year 1897, when 61 cases occurred in 53 different houses, the epidemic prevailing during the first six months and extending to all parts of the town. Dr. Paine, who was Medical Officer of Health at the time, in his Annual Report for that year attributed the spread of the disease and the continuation of the outbreak to the absence of hospital accommodation, and to the impossibility of procuring proper isolation of the patients in their homes. Since that date the number of cases of small-pox reported annually has been as follows :—

Year ...	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.
Cases ...	9	5	4	10	1	45	7	0	0	4	9

Each one of these cases was removed to the Small-pox Hospital, each one being a fresh introduction of the disease into the town. Even in the year 1896, when small-pox was imported from Gloucester and the neighbourhood on many occasions, it did not spread from the houses originally infected. There would seem, therefore, to be little cause for alarm at the introduction of a few cases of small-pox into a locality well provided with hospital accommodation. Fortunately, also, in the case of small-pox, everyone can secure protection against it by vaccination. Although the number of available beds for small-pox patients is sufficient, the situation of the Hospital is open to the objection that it is too near to the General Hospital for Infectious Diseases, and when any extension of this building is required, the removal of the Small-pox Hospital from its present site will become necessary. The infection of small-pox is conveyed through the air to considerable distances; it is necessary, therefore, that Hospitals should be in isolated positions.

A Memorandum of the Local Government Board, dated August, 1900, contains the [illegible]:—

"Hospitals for Small Pox.—In view of the frequently demonstrated liability of Small Pox Hospitals to disseminate that disease to neighbouring communities, and in order to prevent such occurrence, the Board require the following conditions to be complied with in the case of Small Pox Hospitals provided by means of loans sanctioned by them:—

1. The site must not have within a quarter of a mile of it either a Hospital, whether for infectious diseases or not, or a Workhouse, Asylum, or any similar establishment, or a population of as many as 200 persons.

2. The site must not have within half a mile of it a population of as many as 600 persons, whether in one or more institutions, or in dwelling houses.

3. Even where the above conditions are fulfilled, a Hospital must not be used at one and the same time for the reception of cases of Small Pox and of any other class of disease."

The following particulars have been supplied to me by the Vaccination Officer of the [illegible] Board of Guardians, and relate exclusively to the Borough of Cardiff:—During the year [illegible] births were registered within the Borough, 503 children died unvaccinated; of the [illegible], 9,507, or 73·1 per cent. were successfully vaccinated; 69 certificates of conscientious objection were granted, equal to 1·4 per cent. of the births; 933 or 19·7 per cent. were unaccounted for. It would appear that both the number of children unaccounted for as regards vaccination and of certificates of conscientious objection are in Cardiff below the average of England and Wales. The latest available statistics show that in the year 1898 [illegible] per cent. of children born in the Country were successfully vaccinated: 0·4 per cent. were returned as insusceptible of vaccination or as having had Small-pox; 2·1 per cent. as under medical certificate of postponement; and 5·8 per cent. of whom certificates of conscientious objection to vaccination had been obtained, leaving 22·4 per cent. still unaccounted for as regards vaccination.

The Clause in the Act of 1898 relating to the "conscientious objector" was evidently framed to discourage repeated and often vain attempts to compel those who honestly object to vaccination to submit their children to vaccination. It is doubtful, however, if it has conduced to increase vaccination, as was anticipated. The Act of 1898 expires at the end of the year 1903, and a strong feeling exists that this will be a suitable time for transferring the administration of the Vaccination Acts to sanitary authorities.

MEASLES.—Three deaths from Measles were registered as compared with 162 in the preceding year. These deaths, which occurred in the third quarter of the year, were equivalent to an annual death-rate of 0·01 per 1,000 persons living. The average death-rate from Measles during the ten years 1891-1900 was 0·41 per 1,000.

The epidemic which prevailed during the first half-year of 1900 had entirely disappeared at the commencement of the year under consideration.

The death-rate from Measles throughout the country in the year 1901, was as follows:—

	Death-rate per 1,000.
England and Wales	0·27
33 Great Towns	0·43
67 other Large Towns	0·25
Cardiff...	0·01

In the large towns the Measles death-rate ranged from 0·00 in Derby, 0·01 in Cardiff, Portsmouth, to 0·58 in Birmingham, 0·67 in Bolton, 0·77 in Blackburn, and 1·00 in Norwich.

WHOOPING COUGH.—Eighty-six deaths were registered during the year. Of these [illegible] were in the first quarter, 22 in the second, 18 in the third, and 8 in the fourth quarter of the year. The deaths were equal to an annual death-rate of 0·52 per 1,000 persons living, and was the [illegible] of the chief Zymotic diseases in this year. The average death-rate from Whooping Cough in Cardiff during the ten years 1891-1900 was 0·47 per 1,000.

In the large towns the rate in 1901 ranged from 0·02 in Huddersfield, 0·18 in Halifax, [illegible] to 0·59 in Bristol, 0·72 in Sunderland, and 0·88 in Swansea.

ENTERIC FEVER.—Eleven deaths were registered from enteric fever, as compared [illegible] the preceding year. The deaths were equal to an annual mortality of 0·06 per 1,000 [illegible]. The average annual death-rate from enteric fever in Cardiff during the ten [illegible]—1900 was 0·12 per 1,000.

The mortality from this disease throughout the country was as follows in 1901 :—

	Death-rate per 1,000.
England and Wales	0·16
33 Great Towns	0·17
37 other Large Towns	0·18
Cardiff...	0·06

During this year the death-rate from enteric fever in the 33 large towns ranged from [illegible] in England, 0·04 in Cardiff, 0·18 in Northampton, 0·25 in Sunderland, to 0·37 in Sheffield, [illegible] in Nottingham.

Among the houses in Cardiff in which enteric fever occurred, eight were found with [illegible] arrangements. In each case the defects were remedied under the supervision [illegible] Inspector of Nuisances.

Of the 79 cases of enteric fever notified at all ages during the year, 24 were under the [illegible] years, and the remainder between the ages of 15 and 65.

Forty-seven cases, or 57·3 per cent. of those notified, were removed to the Sanatorium.

Of the 79 cases notified during the year 22 were imported into the town from outside, [illegible] and four were secondary cases occurring in the same house.

The following table shows the number of cases of enteric fever notified, and the [illegible] in Cardiff during the ten years 1891-1900 :—

TABLE XV.

Year.	Cases Notified.	No. of Deaths.	Death-rate per 1,000 persons living.	Mortality per cent. of cases notified.
[illegible] ...	130 ...	26 ...	0·19 ...	20·0
[illegible] ...	118 ...	24 ...	0·18 ...	20·3
[illegible] ...	103 ...	18 ...	0·13 ...	17·4
[illegible] ...	62 ...	7 ...	0·05 ...	11·2
[illegible] ...	79 ...	14 ...	0·09 ...	17·7
[illegible] ..	74 ...	13 ...	0·08 ...	17·5
[illegible] ...	117 ...	20 ...	0·13 ...	17·0
[illegible] ...	80 ...	17 ...	0·11 ...	21·2
[illegible] ...	94 ...	[illegible] ...	0·12 ...	20·2
[illegible] ...	95 ...	25 ...	0·15 ...	26·3
[illegible] ...	73 ...	11 ...	0·06 ...	15·0

DIPHTHERIA AND MEMBRANOUS CROUP.—Seventy-eight deaths were [illegible] to these diseases, giving an annual death-rate of 0·47 per 1,000, as compared [illegible] rate in the ten years 1891-1900.

The mortality from diphtheria throughout the country in 1901 was as follows:—

	Death-rate per 1,000.
England and Wales	0·27
33 Great Towns	0·30
Other Large Towns	0·28
Cardiff	0·47

The number of cases of diphtheria notified during the year was 724, which [illegible] number, with one exception, since the year 1891. From the following table it will be [illegible] the maximum during the 10 years, 1891-1900, was reached in the year 1898, when the [illegible] amounted to 940.

Year.	Population.	No of Cases Notified.	No. of Deaths.	Death-rate per 1,000.	Mortality per Cent. of Cases Notified.
1891 ...	130,283 ...	67 ...	16 ...	0·21 ...	23·8
1892 ...	132,895 ...	[illegible] ...	[illegible] ...	[illegible] ...	[illegible]
[illegible] ...	136,768 ...	462 ...	93 ...	0·67 ...	20·1
[illegible] ...	139,519 ...	326 ...	59 ...	0·42 ...	18·0
[illegible] ...	142,958 ...	229 ...	46 ...	0·32 ...	20·0
[illegible] ...	146,479 ...	296 ...	55 ...	0·38 ...	18·6
[illegible] ...	150,087 ...	512 ...	90 ...	0·59 ...	17·5
[illegible] ...	153,783 ...	940 ...	129 ...	0·84 ...	12·6
[illegible] ...	157,414 ...	628 ...	61 ...	0·38 ...	9·7
[illegible] ...	161,452 ...	706 ...	81 ...	0.50 ...	11·4
[illegible] ...	165,308 ...	724 ...	78 ...	0·47 ...	10·7

Diphtheria has prevailed extensively throughout South Wales during the year, [illegible] in those districts between which there is a very free and frequent intercommunication [illegible] railway. This is shown in the following table, which gives the quarterly death-rates from [illegible] in the Rhondda and Merthyr Tydfil Urban Districts, as compared with those in [illegible].

	1st Quarter. Death Rates per 1,000.	2nd Quarter. Death Rates per 1,000.	3rd Quarter. Death Rates per 1,000.	4th Quarter. Death Rates per 1,000.
Rhondda	1·08 ...	1·12 ...	1·16 ...	1·12
Merthyr Tydfil ...	0·28 ...	0·63 ...	0·83 ...	0·52
Cardiff	0·31 ...	0·44 ...	0·46 ...	0·68

In the last published Annual Report of the Registrar-General for the year [illegible] following paragraph appears relative to the excessive mortality from [illegible] Counties:—"Among [illegible] in descending order of fatality, the following districts suffered most severely:—South Wales, where the mortality was equal to 887 per million living; [illegible], 703 per million; and Monmouthshire, 658 per million. Out of a total of 1,217 [illegible] from diphtheria and croup registered in Monmouthshire and South Wales, not fewer [illegible] 1,115 occurred in the area covered by the following contiguous districts:—Bedwellty, [illegible], Newport, Cardiff, Pontypridd, Merthyr Tydfil, Neath and Swansea."

Taking the years 1896—98, we find also from the same Report that the highest average [illegible] for that period (528 per million) occurred in South Wales, as compared with 261 per [illegible] the rate of mortality in Durham and West Ham (less London), the rate in the Registration [illegible] of London being 332, the next in order of fatality to South Wales.

...case mortality, or the proportion of deaths from diphtheria to cases notified in ... the year 1901, was at the rate of 10·7 per cent. This fatality was exceedingly low, ... seem to indicate that the disease which prevailed throughout the year was of a mild ... From the foregoing Table it will be seen that during the past four years the proportion of ... cases of diphtheria has been unusually small; 351 cases were removed to the Sanatorium, ... only 28, or 8·2 per cent., proved fatal.

... was distributed throughout the district, the number of notifications ranging ... in the East, 189 in the Central, to 356 in the West Cardiff Registration Sub-district. ... on previous occasions, occurred chiefly amongst infants and young children, 80 ... of the cases notified being children under 15 years of age. Diphtheria is not only a ... of childhood in preference to adults, but it is also much more fatal when ... in young children, the mortality rate diminishing with advancing years.

The following Table shows the number of cases notified and the mortality at certain age ...:—

TABLE XVII.

	No. of Cases Notified.	No. of Deaths.	Proportion of Deaths to Cases Notified.
Under 1 year... ...	9 ...	3 ...	33·3 per cent.
1—5 years	227 ...	47 ...	20·7 ,,
5—15 ,, ...	357 ...	27 ...	7·8 ,,
15—25 ,, ...	77 ...	0 ...	0·0 ,,
25—65 ,, ...	53 ...	1 ...	1·8 ,,
65 years and upwards ...	1 ...	0 ...	0·0 ,,

... the foregoing it will be seen that the mortality was practically confined to ... though 181 cases of diphtheria were notified of persons over 15 years of age, ... only eight cases.

... mortality from diphtheria in any district depends, therefore, to a considerable ... upon the proportion of adults found, and is, of course, influenced by the age distribution ... of the district.

... ascertain the extent of this age influence upon the diphtheria death-rate in ... it is necessary to examine the question a little more closely, as at first sight it might ... that the mortality was entirely the result of an unusually large proportion of ... This, however, does not appear to be the case, for if we take the statistics of ... we find that this proportion is by no means above the average.

... Manchester, for instance, during a period of ten years 1891-1900, out of a total of ... diphtheria notified, 1,027 or 28 per cent. were over 15 years of age, whereas in ... the year under consideration, only 18 per cent. of the notifications were of persons ... On the other hand, it would appear that the mortality amongst the cases ... between the ages of 5 and 15 years was in Cardiff much below the ave... ... we find that ... 5 cases ... between ... 2·8 ... ... with a case fatality of 7·8 in Cardiff ...

... ... that, the proportion of deaths to cases notified has been as follows:—

...	Case Mortality.
...	25 per cent.
...	20 ,,
...	— ,,
...	11 ,,

in Bristol as follows:—

Year.	Case Mortality.
1897	24·7 per cent.
1898	20·2 ,,
1899	21·1 ,,
1900	20·1 ,,

In the London Hospitals of the Metropolitan Asylums Board the case mortality of Diphtheria is at the rate of 28 per cent. The foregoing examples have been given for the following reasons—Firstly: Because they relate to cities of the first magnitude in which the number of cases dealt with are so large that conclusions drawn from average rates are not liable to error on account of insufficient data. Secondly: Because the returns in the Annual Reports of the Medical Officers of Health for these places are very complete, and in a form easily available for reference: and Thirdly: Because, obviously, the patients have, as regards treatment, been under the most favourable conditions for recovery.

It is not easy, therefore, to account for the low case mortality of Diphtheria in Cardiff as compared with other towns. It is now a well recognised fact that the administration of Antitoxin in the early stages of the disease has, of late years, reduced the mortality from Diphtheria, and the Medical Superintendent of the Manchester Isolation Hospital refers to this in his last published report in the following terms:—"It is gratifying to note that the mortality from Diphtheria has fallen from 22·2 per cent. in the year 1897 to 18·7 per cent. in 1900. It cannot be too frequently mentioned that the death-rate from diphtheria depends on the promptness with which the disease is cut short by the administration of antitoxin before any grave changes can have resulted from the diphtheria toxæmia. . . I am pleased to say that though a death-rate of 18·7 per cent. allows of great room for improvement, yet the amelioration already obtained is apparently in part due to the above cause." Making every allowance, therefore, for treatment of cases by antitoxin, it would appear that our case mortality from Diphtheria is considerably below the average, and it is, therefore, almost impossible to avoid the conclusion that this is in part produced by a certain proportion of cases being returned as Diphtheria in Cardiff which in other places would not come under that denomination, but would be regarded as cases of some milder form of throat affection.

In the absence of any connection with local insanitary conditions, or with any infection of milk, or with any disease of the lower animals, it is probable that most of the cases of Diphtheria which occurred during the year owed their origin to the ordinary mode of infection by personal contact. It is to be feared that a certain number of children suffering from Diphtheria in a mild form, and who are perhaps not under medical treatment, convey the infection, and are the means of introducing it into schools. There is evidence to show that sometimes persons who have been in contact with infected persons may convey the infection without being ill themselves. The disease may also be spread by convalescents who mix with other persons before they are free from infection. With a view to discover cases coming under any of these categories, I propose to utilize more freely the resources of our Public Health Laboratory, and have arranged with Dr. Savage, our Bacteriologist, to institute next year a systematic bacteriological examination of as many of such cases as time and opportunity will permit. Dr. Savage will undertake the examinations, acting of course with the consent of the Medical practitioner, and with the assistance of those of our qualified pupils of the Public Health Department of the College, who may be willing to assist in the investigation. The information obtained in this way will, it is presumed, be of great assistance to the Medical Officer of Health in enabling him to take further precautionary measures against the spread of diphtheria. This procedure would also, incidentally, have the advantage of affording a valuable aid to diagnosis in doubtful cases, and it might then be possible to restrict the admission to the Sanatorium to those cases in which the bacteriological examination gave a positive result, and by this means effect a considerable saving of expense.

...T FEVER.—Twenty-nine deaths were registered from scarlet fever during ... This number was equal to an annual death-rate of 0·17 per 1,000 of the ... corresponding exactly with the average in the ten years 1891—1900.

... mortality from scarlet fever throughout the country in 1901 was as follows :—

	Death-rate per 1,000.
... and and Wales	0·15
... Towns	0·17
... Large Towns	0·14
... ...	0·17

... cases of scarlet fever notified during the year was 1,362, and from the ... be seen that, with the exception of the year 1892, when the maximum of ... was the greatest number notified since the Infectious Disease Notification ... .

The proportion of deaths to cases notified was comparatively low, amounting to ... per cent.

TABLE XVIII.

	Population.	No. of Cases Notified.	No. of Deaths.	Death-rate per 1,000.	Mortality per Cent. of Cases Notified.
...	130,285	685	35	0·27	5·0
...	...	1,851	87	0·65	4·7
...	...	816	39	0·28	4·7
...	...	577	8	0·05	1·3
...	...	484	8	0·05	1·6
...	...	874	28	0·19	3·2
...	...	758	17	0·11	2·2
...	...	332	8	0·05	2·4
...	...	184	3	0·01	1·6
...	...	383	11	0·06	2·8
...	...	1,362	29	0·17	2·1

... incidence of scarlet fever in each quarter of the year, as shown by the ... in the Registration Sub-districts, was as follows :—

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
... ...	71	67	102	183	423
... ...	36	77	79	147	339
... ...	60	91	116	330	597
... and Workhouse ...	—	—	1	2	3
... ...	167	235	298	662	1362

... the 1362 cases of Scarlet Fever notified, 638 or 46·8 per cent. were removed to the ... .

... the number of cases removed to the Hospital was larger than in any previous ... portion so removed was low, the Hospital accommodation was taxed to its utmost ... the Medical Superintendent reported that at times the wards were unduly crowded, ... applications for admission had of necessity to be refused. Scarlet fever ... in an epidemic form during the whole of the year under consideration, and to ... during the latter part of the year 1900. No part of the town escaped, and as ... from the above figures, the number of cases reported increased in each succeeding ... reaching the maximum in all three divisions in the fourth quarter. The relative ... in the different districts obviously depended for the most part upon the facilities ... of infection from person to person which may have varied at times in these

Previous experience shows that epidemic waves of Scarlet Fever pass at intervals of [illegible] years over most of the large cities and towns in this Country. One attack of scarlet [illegible] produces immunity from further attacks, consequently an extensive epidemic in [illegible] has the effect of protecting the community from infection for a few years, until with [illegible] population a large number of children again attain the age at which they mix [illegible] others in school and in public places, and a renewed outbreak occurs amongst [illegible] proportion of the population.

The amount of susceptible material and the extent of the outbreak increasing with the [illegible] interval between the epidemics.

It is not easy to estimate with accuracy the extent of the prevalence of scarlet fever [illegible] epidemic periods. Neither the death-rate nor the proportion of notifications afford absolutely reliable data. The death-rate depends of course largely upon the prevalence, but also upon the type or degree of fatality of the disease. The proportion of deaths to cases notified in Cardiff ranged during the ten years 1891-1900 from 1·3 per cent. in 1894 to 5·0 in 1892. Apparently the disease was more than twice as fatal to those attacked in the last [illegible] 1892 as to those in 1901.

It is obvious, therefore, that there was some cause operating in 1901 which had the effect of reducing the sickness rate and mortality in the epidemic of that year which was not in [illegible] 1892. This may be found, I think, in the more complete isolation by removal to [illegible] of the infected persons.

The proportion of notifications also depends to some extent upon the type of scarlet [illegible] prevailing at the time, as it is found in practice that when a mild type prevails a greater [illegible] of cases are unrecognized, and so escape notification. The returns, however, show that [illegible] notifications numbered 1,851, or in the proportion of 14 per 1,000 persons living. [illegible] compared with 1,132, or 8·4 per 1,000 in 1901, whereas the deaths in the former year were [illegible] annual rate of 0·65, against 0·17, the rate in 1901. It has been assumed by some [illegible] Hospital isolation which is now so extensively carried out in most large towns has had [illegible] effect in checking the prevalence of scarlet fever, and it is certain that the statistics [illegible] do not warrant the hope that this disease will be ever completely eradicated by this [illegible]. But it is obvious that the removal of centres of infection from populous districts must [illegible] the amount of the disease, and although it is impossible to state what would have been [illegible] the epidemic of 1901 in the absence of Hospital isolation, it is fair to assume that the marked difference in the mortality and sickness rate in 1892, as compared with 1901, [illegible] mainly due to the absence of Hospital accommodation in the former year, whereas in the more recent epidemic over 600 cases were removed to the Hospital. But quite apart from the influence of Hospital isolation upon the spread of the disease, there is an obvious advantage to the community in the lessened interference with school attendance and with various trade [illegible] amongst the families from which the infected person has been removed, which more [illegible] compensate for the necessary expenditure of Hospital maintenance.

Although hospital isolation may never entirely remove scarlet fever from amongst us, [illegible] if systematically enforced, have the effect of lessening the extent of an epidemic, and of [illegible] the interval between epidemic periods, thus reducing the sickness rate and the [illegible] to the disease by postponing the infection until a later age.

[illegible] shown by Dr. Whitelegge, upon an analysis of about 6,000 cases, that in [illegible] infection during the first few years of life there is a double gain: every [illegible] from scarlet fever renders him less and less susceptible, until finally he becomes [illegible] insusceptible, and secondly, even if he should ultimately take the disease, every year that [illegible] reduces the danger to life which it brings.

In the following table the deaths have been distributed according to age periods and [illegible] the year.

Deaths from Scarlet Fever in 1901.

[illegible] Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.	
[illegible]	Deaths.	Ages.	Deaths.	Ages.	Deaths.	Ages.	Deaths.
[illegible]	[illegible]	0—1	0	0—1	1	0—1	0
[illegible]	[illegible]	1—5	4	1—5	2	1—5	10
[illegible]	[illegible]	5—15	1	5—15	0	5—15	2
[illegible] upwards	[illegible]	15 and upwards	0	15 and upwards	0	15 and upwards	0

[illegible] enclosed chart demonstrates graphically the number of weekly notifications of [illegible] during the year. A large number of certificates for exclusion from school attend[illegible] granted, both with respect of children infected with the disease and of those who had [illegible] with infected persons. The total number of notices for exclusion from the [illegible] Schools amounted to 1,529 during the year, distributed as follows :—

NAME OF SCHOOL.	Number of Notices Sent to Schools.
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
	[illegible]

DIARRHŒA.—The deaths from diarrhœa numbered 75, being equal to an annual [illegible] per 1,000 persons living. The average rate in the ten years 1891-1900 was [illegible].

The death-rate from diarrhœa throughout the country, in the year 1901, was as follows:—

	Death-rate per 1,000.
England and Wales	0·91
33 Great Towns	1·23
17 other large towns	1·09
Cardiff	0·45

The distribution of diarrhœal mortality in Cardiff, according to the season of the year, at various age periods, was as follows:—

	Under One Year.	One and under Five Years.	Five and under Fifteen Years.	Fifteen and under Twenty-five years.	Twenty-five and under Sixty-five.	Sixty-five years and upwards.	Total.
[illegible]	—	—	—	—	—	—	—
[illegible]	4	—	1	—	—	—	5
[illegible]	51	4	—	—	2	1	58
[illegible]	11	1	—	—	—	—	12
[illegible]	66	5	1	—	2	1	75

From the preceding table it will be seen that of the 75 deaths from diarrhœa during the year 75 occurred in the 3rd quarter of the year. Of these, 51 were amongst infants under one year of age.

The relation between the temperature of the air, rainfall, and the diarrhœa mortality during the third quarters of the ten years 1892-1901, is shown in the following table:—

TABLE XIX.

Diarrhœal Mortality in the 3rd Quarters of the years 1892-1901:—

Year.	Death-rate per 1,000.	Mean Temperature.	Rainfall in inches.
[illegible] ...	2·3 ...	60°·4 ..	12·4
[illegible] ...	2·5 ...	61°·8 ...	8.9
[illegible] ...	0·5 ...	57°·0 ...	10·9
[illegible] ...	2·5 ...	59°·5 ...	9·9
[illegible] ...	2·4 ...	58°·9 ...	11·3
[illegible] ...	2·6 ...	59°·3 ...	14·3
[illegible] ...	2·6 ...	60°·3 ...	5·8
[illegible] ...	3·2 ...	63°·3 ...	5·3
[illegible] ...	1·2 ...	59°·7 ...	6·0
[illegible] ...	[illegible] ...	[illegible] ...	[illegible]

From the above it will be noticed that the maximum death-rate coincided in point of time with the maximum mean temperature and with the minimum rainfall, and that the lowest death-rate (0·5) coincided with the lowest mean temperature (57°·0), and with an abundant rainfall.

mortality amongst young children is practically confined to the summer
... higher in hot dry summers. The mortality appears to depend
...ased activity of bacterial life which takes place during this season of the
... layers of the soil, when also fermentative and putrefactive changes more
...nic substances. Infants fed entirely upon the breast suffer little from
... incidence of the disease falls almost entirely upon those fed upon cows'
...ods—substances which, unless the greatest care is exercised, rapidly undergo
...er them unfit for food.

...—A fatal case of plague occurred during the year under circumstances of
... The infection appears to have been introduced into the town by means of
...g of grain.

... favour of the assumption that the illness in this instance was due to
... was exceedingly strong. This will be seen from the subjoined Report, which
... Health Committee shortly after the occurrence.

... the infection, as far as human beings were concerned, was limited to this
...

TOWN HALL, CARDIFF,

26th February, 1901.

... MEMBERS OF THE HEALTH AND PORT SANITARY COMMITTEE.

...

... submit to you the following ... a fatal case of plague which occurred
... 31st January last. On the 29th my attention was called by Dr. Campbell
... J. C., living at 4, Spring Gardens Terrace, and who was suspected to be
... plague. The symptoms were of a somewhat indefinite character, and before a
... could be given as to the nature of the case a bacterial examination was neces-
... and fluid from an inflamed gland were taken from the patient by Dr. Savage
... at the Cardiff and County Public Health Laboratory, and the usual cultural and
... established incontestably the presence of the plague organism. Subsequently
... forwarded to Dr. Klein, the Bacteriologist of the Local Government
... the case to be one of plague. The condition of the patient at the time
... was impossible to remove him to the Hospital, and he remained at his residence
... on the 31st January. The body was removed for burial to the Cardiff
... following day, having been completely covered with linen wrappers steeped in
... sublimate. On inquiry I found that J. C. complained of feeling ill on
... 26th January, and on the following Monday was too ill to go to work. Up to this
... working at some Grain Stores in the Collingdon Road, West Bute Dock.
... inquiry and an examination of the men employed at these Stores failed to reveal any
... at all resembling Plague. An examination of the Mortality Statistics and
... from Medical Practitioners afforded no indication of any unusual illness in the town.
... therefore, to connect the disease in the case of J. C. with any antecedent case
... human beings. It became necessary, therefore, to search for some other
...

... known that rats suffer from plague, and can convey it to persons by some
... insufficiently explained. My attention was first directed to an unusual mortality
... animals by a statement made by the patient to Dr. Campbell, to the effect that
... dying in large numbers at and in the neighbourhood of the Grain Stores.

..., fully confirmed by subsequent enquiries, which elicited the fact that
... of three weeks preceding the ... illness had been seen in large numbers

condition in this locality. I was fortunately able, on February 4th, to find ... which the patient worked two dead rats, one of which had quite recently died. ... at once to the Laboratory for examination, and the following is Dr. Savage's ...—

CARDIFF AND COUNTY PUBLIC HEALTH LABORATORY.

February 5th, 1901.

... were forwarded to me on the 4th inst., about 12.15 p.m., by Dr. Walford, the ... for Cardiff. They were both dead, and the Post Mortem Examinations ... The small rat was in a partially decomposed condition, and gave off ... Careful examination did not in any way show that the animal had died ... The large rat appeared fresh and only recently dead. Conclusive evidence was ... had died of plague, and the plague bacilli were found in large numbers ... spleen and other internal organs. It can be taken as an assured fact that ... the dead rats have died of plague infection. Such animals would be potent ... to other rats and to human beings.

WILLIAM G. SAVAGE, M.D., Lond.

At the request of Mr. W. H. Power, C.B., the Medical Officer of the Local Government ... forwarded on the 5th inst, from the same stores, the body of a recently dead rat to Dr. ... and on the next day received the following telegram: "Rat examined ... Plague. Medical Officer Local Government Board." In the face of these reports ... bacteriologists acting independently, it became evident that we had to deal with ... spread through plague-infected rats in a manner very similar to that which ... in January, 1900, where the first known case was apparently traced to this ..., and occurred in a person working at wharves upon which large numbers of ... were dying of plague at the time. Inquiries were at once made with a view ... if any of the workmen at the Wharves and Stores on the West Dock were ... work on account of illness, and on February 1st, through the courtesy of the ... of the Companies having warehouses and stores in this locality, I found one ... in the house in No. 8, Iron Street, who complained of feeling very ill with severe ... and nausea, and with a rapid pulse, and temperature of 103·0 F. At the ... patient complained of extreme pain and tenderness in the left arm pit, where the ... were found swollen and inflamed. From the patient's statement I found that he ... engaged quite recently in carrying dead rats to a furnace for destruction. Under these ... I thought it advisable to have him removed to the hospital for observation. Some ... and fluid were taken for bacterial examination, but in this case Dr. Savage reported that ... no evidence of the presence of the plague organism. The patient rapidly recovered ... illness, which was probably caused by some local lesion accompanied by inflammation ... lymphatics and glands of the arm and axilla. At a Special Meeting of the Health ... held on February 5th, full powers were delegated to your Chairman and Medical ... of Health to take all necessary measures for preventing the spread of the disease, and at ... time Dr. Reece, one of the Medical Inspectors of the Local Government Board, gave ... assistance and advice. The preventive measures which were taken consisted, in the ... first place, of a complete medical and sanitary inspection of what might be regarded ... as the infected area, namely, the Wharves, Warehouses, Stores and Mills on the ... of the West Bute Dock.

The medical inspection was accomplished with the assistance of four medical men, who ... temporarily engaged to assist the Medical Officer of Health in the examination of the ... in this area. The number examined amounted to about 700. The sanitary inspection ... of the area was carried out by the Medical Officer of Health and his staff of Inspectors. Those ... who had been in contact with the patient at his home were also kept under daily ... The infected premises were thoroughly cleansed and disinfected, and most of the

and clothing in the sick room were destroyed. The removal of existing
se was carried out, and the more efficient cleansing and scavenging of the
insisted upon.

which the infected rats were found, and at which the person who
d, were completely cleansed, disinfected, and lime-washed throughout,
destroyed, and particular attention was paid to the exact locality where
mals were found, and which was, in fact, the rat-run on the premises,
between the matchboarded roof of the engine room and the floor of the Grain
The inspection resulted in the discovery at the time of a considerable number of
and some of the adjoining premises, and there was evidence of the presence of
Acting on my advice, the occupiers of the warehouses, etc., forthwith
the known rat-holes in the district, and about 50 or 60 traps were placed in
ses.

On the suggestion of Dr. Reece, it was decided to follow the example of the Authorities
and other places in which outbreaks of plague had occurred, and offer a reward for
brought in; accordingly bills were posted throughout the town offering 4d. for each
the Corporation Depot, where their bodies were burned.

The Hospital on the Flat Holm, belonging to the Port Sanitary Authority, was got
for the accommodation of any cases of plague which might occur, and a supply of
prophylactic plague serum obtained for those who were willing to be inoculated. The
of workmen was kept up for three weeks after the fatal termination of this
and not result in the discovery of any further cases. The bacterial examina-
recently made has been continued up to the present date with negative results, and it
that the unusual mortality amongst these animals, which evidently existed for
previous to the occurrence of the case, has altogether ceased.

These facts indicate that all danger of plague infection from rats as well as from human
, and that we have fortunately escaped any serious outbreak of the disease.

In conclusion I have to advise your Committee to urge upon the Burial Board the
building a Crematorium at the Cardiff Cemetery in accordance with the powers
a Local Act of Parliament. In all probability the cremation of the
person might in this case have been carried out had there been the means

at the Cemetery, and I may add that during the past few years several applications
persons desirous of having the remains of their deceased relations cremated

Further, I would advise that the construction of the Disinfection Station which you
have sanctioned should be proceeded with with as little delay as possible.

It is also desirable that articles containing infection from diseases, such as plague
should be taken to the disinfecting apparatus at the Sanatorium, as these diseases
to this institution, and as by so doing a fresh dangerous infection is at times
premises, a proceeding attended with some danger to the inmates therein.

I am, Gentlemen, your obedient Servant,

EDWARD WALFORD, M.D.,

Medical Officer of Health.

TUBERCULOSIS.—From the statistical tables included in this Report, it will be seen [illegible] deaths were registered from phthisis alone, giving a death-rate of 1·05 per [illegible] population, one of the highest rates of any single disease.

[illegible] other forms of tuberculosis be included, the deaths from these allied diseases [illegible] 172, or 10·4 per cent. of the total deaths from all causes during the year.

Pulmonary phthisis or Consumption seems to have been at all times abnormally fatal [illegible] especially in North [illegible]

[illegible] persons living were for the undermentioned periods, as compared with [illegible] as follows :—

	1861-70.		1871-80.
[illegible] and Wales ...	2,475	England and Wales ...	2,116
South Wales	2,981	South Wales	2,543
North Wales (highest) ...	3,277	North Wales (highest) ...	2,574
[illegible]shire (lowest) ...	1,704	Worcestershire (lowest) ...	1,481
	1881-90.		18[illegible]
[illegible] and Wales ...	1,724	England and Wales ...	1,336
South Wales	2,008	South Wales	1,336
North Wales	2,077	North Wales	1,664
[illegible]ford (highest)	2,086	London (highest) ...	1,824
[illegible]shire (lowest) ...	1,196	Huntingdonshire (lowest)	775

The annual death-rate from phthisis per 1,000 persons living in Cardiff during the [illegible] is given below :—

TABLE XI.

Year.	Death-rate per 1,000.	Year.	Death-rate per 1,000.
[illegible] ...	3·21 ...	[illegible] ...	2·78
[illegible] ...	2·96 ...	1892 ...	1·82
1882 ...	2·86 ...	1893 ...	1·68
[illegible] ...	2·67 ...	1894 ...	1·32
[illegible] ...	2·97 ...	1895 ...	1·67
[illegible] ...	3·58 ...	1896 ...	1·38
[illegible] ...	2·78 ...	1897 ...	1·99
[illegible] ...	2·72 ...	1898 ...	1·32
[illegible] ...	2·80 ...	[illegible] ...	1·32
1880 ...	2·79 ...	1900 ...	1·25
[illegible] ...	3·18 ...	1901 ...	1·05

During the ten years, 1891-1900, the total number of deaths from Phthisis in Cardiff [illegible] to 2,[illegible], being equal to an annual average death-rate of 1·49 per 1,000 for that period.

Of the 2,471 deaths 452 or 20·0 per cent. occurred in the Cardiff Workhouse Infirmary.

During the past year a step in advance has been taken in connection with the pre[illegible] of Consumption by the formation of a branch for South Wales and Monmouthshire of [illegible] National Association for the Prevention of Consumption.

A public meeting was held on the 3rd October, in the Town Hall, Cardiff. The Mayor [illegible] (Councillor Thomas Andrews, J.P.) presided, and the attendance was large, influential, [illegible] representative of the whole of South Wales. Over forty public bodies (County, Town and [illegible] Councils) were directly represented. Dr. Isambard Owen and Dr. Alfred Hillier [illegible] the meeting on behalf of the Central Association. The following resolutions were [illegible] unanimously :—

(1) That a Branch of the National Association for the Prevention of Consumption and other forms of Tuberculosis for South Wales and Monmouthshire be and is hereby formed.

(2) That an Executive Committee be appointed, to consist of members elected at the Annual General Meeting of the Branch; the President, Treasurer and Secretary to be *ex-officio* members of the Executive Committee.

(3) The following appointments were made for the ensuing year:—President, The Right Hon. Lord Windsor, together with a large number of Vice-Presidents; Treasurer, Major-General H. H. Lee, J.P.; Hon. Sec., Dr. Eldon Pratt.

(4) Sub-Committees were formed:—(1) Finance and General Purposes; (2) Educational; (3) Parliamentary.

ion has no extensive executive powers, and its objects are chiefly directed
wards the public in matters connected with the spread of tuberculosis, so as to
enable ordinary precautionary and preventive measures. There are several ways,
the Association can assist and co-operate with public bodies, such as County
ary Authorities. In all probability the best practicable way of deriving full
n of voluntary notification of phthisis would be the establishment of a
syste of visits by properly instructed persons to the houses of the poorer classes in
is have occurred. Such health visitors would instruct the inmates in the
for the prevention of the disease, which, after all, mainly consists in cleanli-
It is only necessary to pass through the streets occupied by the poor, and
perhaps upied by persons who are not poor, to realise how completely the necessity

a common thing even on a warm day to see all the windows in many of the
houses The Sanitary Authority can hardly be expected to employ a sufficient
number to go about the purely educational work of giving these people practical
ins ventilation and cleanliness. Much, however, might be done by the combined
action Authorities and the Association. The local branches might take upon itself
thi of the work, possibly by devoting some of its funds towards the payment
or possibly by establishing a voluntary system of district visiting. In any
case would be in the position of being able to call the attention of the Officers of the
Sanitary conditions which might require their interference. But before any action
in this the Sanitary Authority must call upon the medical practitioners in the
district untarily, cases of phthisis under their care, as affording the best indication
of ities requiring visits. Some Medical Officers of Health, whose opinions
are of ave advocated a system of compulsory notification of phthisis, but what-
ever ntages or disadvantages of this system, it is yet hardly ripe for discussion,
as no is in a position to adopt it. Phthisis is not included amongst the diseases
which d to be notified under the Infectious Diseases Notification Act, and although
any ity may by resolution add certain diseases to the list, this can only be done
with the Local Government Board, and as yet in no case has this consent been
obtained ons for this decision, or at any rate some of the reasons, are obvious. As
soon as se comes under the operation of the Notification Act, it also comes under
certain of the Infectious Disease Prevention Act, provisions which are of a very
howerve r, and which are totally inapplicable to persons suffering from phthisis.

it seems probable, that the majority of Medical practitioners are not in favour
of the y notification of this disease—this, in itself, would make the adoption of any
such workable. The success of notification, as a means of preventing the spread of
disease y largely upon the cordial co-operation of the medical profession, and there is
evidence uld not, at present, be accorded to a compulsory system.

We must rely, therefore, upon information supplied voluntarily by medical men, and have every reason to believe that information will be readily supplied in all cases in which the knowledge of the Sanitary Authority can usefully take action.

One of the most important objects which the National Association for Prevention of Consumption has in view, is the establishment through its branches of Open-air Sanatoria for consumptive patients. This again can be best accomplished by the co-operation of Sanitary Authorities with the Association.

For those who are able to pay for the excellent accommodation provided in the Sanatoria which are now established by private enterprise in many parts of the country, no charity is required. For the maintenance and treatment of pauper patients, Boards of Guardians are responsible.

But for that large class of the community who can only contribute in a very slight degree, or perhaps cannot contribute at all towards the expenses of maintenance, some other provision must be made if they are to have the advantage of Sanatorium treatment. For such cases the expenses must either come out of the local rates, aided by such payments as the patients can make, or out of the Association alone, or in conjunction with Local Authorities. The Local Authorities in Administrative Counties can contribute under the Isolation Hospital Act, 1893, towards the expenses of Sanatoria for phthisis until this disease becomes notifiable under the Infectious Disease Notification Act.

Sanitary Authorities, such as County Boroughs, Urban and Rural District Councils, have power under Sec. 131 Public Health Act, 1875, to provide hospitals for the reception and treatment of persons suffering from any kind of sickness within their district, and may enter into agreement with hospital managers for that purpose. They could, therefore, contribute towards the accommodation provided by the Association, and this would appear to be the best solution of the difficulty.

At the present time the Cardiff Corporation acting as the Sanitary Authority, carries out the following preventive measures with respect to the prevention of Tuberculosis:—(1) A system of voluntary notification of Phthisis by Medical Practitioners. Upon receipt of the notification a pamphlet containing simple directions for dealing with infectious material and a brief statement of the necessary precautionary measures to be adopted, is left at the house. (2) In the event of a death occurring in a house a postcard is sent to the occupier offering disinfection of the premises and infected articles free of charge. A most important part of the work of the Sanitary Authority in connection with the prevention of consumption consists in the supervision of the meat and milk supply. With respect to the former it will be seen in another part of this report that the inspection of meat is carried on in this district in a very complete manner. During the year no less than 44 carcases of animals intended for food were destroyed on account of tuberculosis. In each case the diagnosis of tuberculosis was confirmed, before condemnation, by a bacterial examination.

The Milk Supply has been kept under supervision, and all persons engaged in the milk trade have been required to comply strictly with the Dairies, Cowsheds, and Milkshops Order and Regulations, and arrangements have been made with the Cardiff and County Public Health Laboratory for a systematic bacterial examination of the milk supply to the district. The examination of the sputum from persons suspected to be suffering from phthisis also forms a part of the work in the bacteriological laboratory. Bye-laws have been framed and confirmed to have notices fixed in all places under the control of the Sanitary Authority, forbidding the public against spitting in such places, and has now under consideration the question of making a Bye-law forbidding, under a penalty, this dangerous and unpleasant practice.

...RT.—The following Tables show the distribution of mortality from the ... diseases from phthisis ... from diseases of the respiratory organs, and from other ... ...ect in the Borough ... the year 1901 :—

CENTRAL WARD.

...REET.	...	...	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrh.	Phthi...	Respiratory Diseases.	Other Causes.	Total.
...e Bridge Street	...	...	...	...	...	...	...	1	1	2	2	6
...	...	...	...	...	...	...	...	...	...	...	4	4
...e ...	...	...	...	...	...	...	...	...	1	1	2	4
... Court ...	...	...	...	...	...	...	...	...	...	1	...	1
...	...	...	...	...	...	...	...	...	...	1	...	1
...	...	...	...	...	...	...	...	...	...	1	2	3
...	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	1	...	1	2
...	...	...	...	...	...	...	...		...	...	6	7
...	...	...	...	...	...	...	...		...	...	3	4
...	...	...	...	...	...	...	...	...	...	..	1	1
...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	2	2	4
...	...	...	...	1	...	...	...	...	...		3	6
...	...	...	...	...	...	...	...	...	...		3	4
... Terrace and Place	...	...	...	...	...	...	...	1	...	...	1	2
...	...	...	...	...	...	.	...	1	1	3	3	8
...	...	...	...	...	...	...	...	...	1		...	2
...	...	...	...	...	...	...	...	...	...	2	2	4
... Crescent	...	...	...	...	...	...	...	..	...	...	4	4
...	...	...	...	...	...	...	...	..	...	...	1	1
...	...	...	...	...	...	...	...	1	...	1	1	3
... and Street...	...	...	...	...	...	...	...	...	...	2	1	3
...	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	1	...	...	1	...	3	5
...	...	...	...	...	...	...	...	..	...	2	3	5
...	...	...	...	..	...	...	..	...	1	2	2	5
...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	1	2	5	8
...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	2	2	6	10
...	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	...	...	...	1
...	...	..	...	...	...	...	...	...	...	1	1	3
...	...	...	...	...	...	...	...	...	...		2	3
...	...	...	...	...	...	...	...	...	...	..	1	1
...	...	...	...	...	...	...	...	...	...	1	2	3
...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	..	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	1	2	2	5
...	...	...	...	...	...	...	...	...	...	1	2	3
...	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	1	...	3	4	9
...	...	...	...	...	...	...	...	...	1	...	3	4
... Resident	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	..	...	...	2	2
...	...	...	...	...	...	...	...	...	1	...	2	3
...	...	...	...	...	...	...	...	...	...	1	...	1
...	...	...	...	...	...	...	...	2	...	3	12	17
...	...	...	...	...	...	...	...	...	...	1	...	1
...	...	...	...	...	...	...	...	...	1	...	4	5
...	...	...	...	...	1	...	...	...	...	...	2	3
...	...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	..	...	...	...	...	1	...	1
Total...	...	...	...	1	1	1	1	6	14	1	121	195

SOUTH WARD.

NAME OF STREET.	Small Pox.	[illegible]	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Bronchitis, Pneumonia &c.	Other Causes.	Total.
[illegible] Street ...	...	...	...	...	...	...	...	1	2	5	8
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street and Place ...	...	...	...	1	...	...	...	2	2	3	8
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] and Place ...	...	...	...	...	...	...	...	...	4	11	15
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] ...	...	...	...	...	...	...	...	...	...	2	2
[illegible] Street and Place ...	...	...	...	...	2	...	...	...	...	3	5
[illegible] ...	...	...	1	1	...	...	...	1	2	7	12
[illegible] and Embankment ...	...	...	...	2	...	...	...	...	1	3	6
[illegible] ...	...	...	...	...	...	...	...	...	1	...	1
[illegible] Street ...	...	...	...	...	...	...	...	...	1	3	4
[illegible] Street and Place ...	...	...	...	...	...	...	...	...	2	2	4
[illegible] ...	...	...	...	...	...	...	...	...	...	2	2
[illegible] Street ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street ...	...	...	...	...	...	...	...	...	2	5	7
[illegible] Street ...	...	...	...	...	...	...	...	1	1	3	5
[illegible] Canal ...	...	...	...	...	...	...	...	...	...	5	5
[illegible] Street ...	...	...	...	...	1	...	...	...	...	4	5
[illegible] ...	...	...	...	...	...	...	...	...	...	3	3
[illegible] Street ...	...	...	...	...	...	...	...	...	...	2	2
[illegible] Street ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] ...	...	...	...	2	...	...	...	...	...	1	3
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Hospital ...	...	...	...	...	...	...	...	...	...	2	2
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street ...	...	...	...	1	...	...	...	...	2	2	5
[illegible] Square ...	...	...	...	...	1	...	...	1	...	6	8
[illegible] Square ...	...	...	...	...	...	...	...	...	...	4	4
[illegible] Street ...	...	...	...	...	...	...	...	...	2	3	5
[illegible] ...	...	...	...	...	3	...	...	1	1	2	7
[illegible] Church Street ...	...	...	...	...	...	...	...	...	...	2	2
[illegible] and Terrace ...	...	...	...	...	...	...	...	...	1	...	1
[illegible] ...	...	...	...	...	...	...	...	...	...	3	4
[illegible] Street ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street ...	...	...	...	1	...	...	...	...	2	4	8
[illegible] Church Street ...	...	...	...	...	1	...	...	...	2	3	6
[illegible] William Street ...	...	...	...	...	...	...	...	1	...	...	3
[illegible] ...	...	...	...	...	...	...	...	...	...	4	5
[illegible] ...	...	...	...	1	...	...	...	...	...	2	4
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] ...	...	...	...	...	...	...	...	...	...	...	1
[illegible] Street ...	...	...	...	...	...	...	...	...	...	1	2
[illegible] Street ...	...	...	...	...	...	...	...	...	...	...	1
Total ...	...	...	...	[illegible]	[illegible]	...	...	[illegible]	[illegible]	111	174

CATHAYS WARD.

NAME OF STREET.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
Road and Crescent ...	...	...	...	...	...	...	...	...	1	2	3
... ...	...	...	...	...	...	...	1	...	1	2	4
...	...	...	...	1	2	...	1	2	3	6	17
...	...	...	...	...	...	...	...	...	...	3	3
... ...	...	...	...	...	1	...		1	...	10	12
...	...	...	...	...	2	...		...	2	7	11
Street	...	...	...	...	...	...	...	...	...	5	5
Street	...	...	...	...	...	...	...	...	...	3	3
...	...	...	...	...	...	...	...	...	1	1	2
Street	...	...	...	...	...	...	...	...	2	2	5
...	...	...	...	...	...	...	...	1	...	4	5
...	...	...	...	...	...	...	...	.	.	3	3
... ...	...	...	...	...	...	...	...	...	...	4	4
...	...	...	...	...	...	1	...	...	...	...	1
Street	...	...	...	...	1	...	..	...	2	1	4
...	...	...	...	...	...	...	.	...	...	1	1
Street	...	...	...	...	...	...	...	...	...	1	1
...	...	..	..	...	...	...	...	1	...	...	1
Street	...	...	...	...	...	...	...	...	1	1	2
...	...	...	...	...	...	...	...	...	1	4	6
and Place	...	...	...	...	3	...	1	...	1	3	8
Street	...	...	...	...	...	...	...	...	1	1	3
... ...	...	...	...	...	...	...	...	...	...	3	3
Gardens	...	...	...	...	...	...	...	...	1	2	3
Street	...	...	...	...	1	...	...	...	...	...	1
...	...	...	...	...	...	3	...	2	...	1	5	11
Road	...	...	...	...	...	...	...	...	...	...	5	5
...	...	...	...	...	1	...	...	...	...	2	3
...	...	...	...	...	...	...	...	.	...	3	4
Street	...	..	...	...	2	...	...	...	2	5	9
...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	2	...	...	...	1	1	4
..	...	...	...	...	...	...	...	...	1	4	5
..	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	5	6	11
...	...	...	...	...	...	...	...	1	...	2	3
...	...	...	...	...	...	...	...	...	...	1	1
Road and Place	...	...	...	...	...	...	...	...	1	...	1
...	...	...	...	...	...	...	...	...	...	5	5
...	...	...	...	...	...	...	1	...	3	5	9
...	...	...	...	...	...	...	...	...	...	...	1
Street and Place	...	...	...	...	...	...	...	1	1	5	7
...	...	...	...	...	...	...	...	...	1	1	2
...	...	...	...	...	1	...	...	...	1	10	13
and Place	...	...	...	...	...	...	...	...	2	3	5
...	...	...	...	...	...	...	...	...	3	5	8
Total ...	...	...	...	5	15	1	7	7	47	132	221

ADAMSDOWN WARD.

NAME OF STREET.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	
[illegible] Street	...	...	...	...	...	...	...	2	2
[illegible]	...	...	...	...	...	...	...	2	2
[illegible]	...	...	...	...	1	...	1	2	4
[illegible] Square and Place	1	...	...	...	...	...	...	1	2
[illegible]	...	...	...	...	...	1	1	2	4
[illegible]	...	...	...	...	...	...	...	2	2
[illegible] Street	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	1	...	1
[illegible]	...	...	...	...	...	...	...	1	1
[illegible] Place and Terrace	...	...	...	...	...	...	1	1	2
[illegible]	...	...	...	...	...	1	...	4	5
[illegible] Street and Place	...	...	1	...	...	...	...	...	1
[illegible] Street	...	...	1	...	...	...	3	3	7
[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	...	...	...	...	...	...	1	1	2
[illegible] Street	...	...	...	...	...	...	[illegible]	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	1	2	3
[illegible]	...	...	...	...	...	...	1	...	1
[illegible]	...	...	...	...	...	...	1	1	2
[illegible]	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible] Street	...	...	...	...	...	...	5	[illegible]	[illegible]
[illegible] and Place	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible] Street and Place	...	...	...	...	...	...	...	2	[illegible]
[illegible] and Court	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	1	...	1
[illegible]	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	...	2	2
[illegible] Street	...	...	...	...	...	...	...	2	2
[illegible] Terrace and Gardens	...	...	2	...	...	...	...	2	4
[illegible] Street	...	...	...	...	...	...	1	...	1
[illegible]	...	...	1	...	...	2	3	2	8
[illegible]	...	1	...	...	...	...	2	2	5
[illegible]	...	...	..	...	...	1	4	72	77
[illegible]	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	1	1	2
[illegible] Street	...	...	...	...	...	...	...	1	1
[illegible] Street 1	...	...	...	...	...	...	...	1	2
[illegible]	...	...	...	...	...	...	...	1	1
[illegible] Terrace	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	...	2	2
[illegible] Street	...	1	...	...	1	...	1	1	4
[illegible] Street	...	...	...	...	...	...	1	...	1
[illegible] Street, Place, and Terrace	...	...	...	...	...	...	1	[illegible]	[illegible]
[illegible] Street	...	...	...	...	...	...	[illegible]	[illegible]	[illegible]
[illegible] Street	...	...	...	...	...	2	1	[illegible]	6
[illegible] Street and Place	...	...	...	...	...	...	1	2	3
[illegible]	...	...	...	...	1	...	2	1	4
[illegible]	...	...	...	...	...	...	.	...	[illegible]
[illegible]	...	...	1	.	...	...	...	1	2
[illegible] Street	...	...	..	...	...	...	...	2	2
[illegible]	...	...	..	...	...	1	2	1	[illegible]
[illegible] Place	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible]	...	...	...	...	1	1	1	[illegible]	[illegible]
[illegible] Street	...	...	...	...	...	...	...	[illegible]	2
[illegible]	...	...	...	...	...	1	1	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible] Street	...	...	1	...	1	2	1	1	6
[illegible]	...	...	...	...	...	...	1	4	6
[illegible]	...	1	...	...	...	...	...	3	3
[illegible]	...	...	...	1	...	...	2	2	5

ADAMSDOWN WARD—Continued.

NAME OF STREET.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
... ...	...	...	...	...	...	...	...	...	...	1	1
... ...	...	...	...	...	...	...	...	1	3	14	18
... ...	...	...	...	...	...	...	...	...	...	3	3
... ...	...	...	...	...	...	1	...	1	1	[illegible]	3
... ...	...	...	...	1	...	...	...	...	...	7	9
... ...	...	...	...	...	...	...	...	...	2	2	4
Total	...	...	2	4	7	2	5	14	56	216	306

SPLOTT WARD.

NAME OF STREET.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
Street	...	...	...	...	1	...	..	...	...	1	2
... ...	...	...	...	...	...	...	...	...	7	4	11
... ...	...	...	...	...	...	...	1	...	...	4	5
... ...	...	...	...	...	...	..	...	...	1	...	1
... ...	...	...	...	1	...	...	1	...	4	4	10
... ...	...	...	...	...	...	...	...	...	...	...	1
... ...	...	...	...	...	...	...	...	1	...	1	3
Street ...	...	...	...	...	...	...	...	...	2	1	3
... ...	...	...	...	...	...	...	...	...	1	1	2
... ...	...	...	...	...	1	...	..	...	4	7	12
... ...	...	...	...	...	...	...	...	...	...	1	2
... ...	...	...	...	...	...	...	...	...	1	1	2
... ...	...	...	..	...	...	...	...	...	1	6	7
... ...	...	...	...	...	...	...	...	1	...	1	2
Street and Place ...	...	...	...	...	...	...	1	2	3	8	14
Street and Place... ...	...	...	...	...	...	...	...	...	1	3	4
... ...	...	...	...	...	...	...	...	...	...	2	2
... ...	...	...	...	...	1	...	1	1	2	7	12
... ...	...	...	...	...	...	...	...	...	...	4	4
... ...	...	...	...	...	1	...	...	1	...	4	6
... ...	...	...	...	...	1	...	...	...	2	7	10
... ...	...	...	...	...	...	...	...	...	3	5	8
... ...	...	...	...	...	...	...	1	...	...	2	3
... ...	...	...	...	...	...	...	1	...	...	...	1
... ...	...	...	...	...	...	...	...	...	1	4	6
... ...	...	...	1	...	1	...	2	2	2	19	27
... ...	...	...	...	...	...	...	3	...	1	1	5
and Crescent ...	...	...	...	...	1	...	...	...	3	14	18
... ...	...	...	...	...	...	...	...	...	...	2	2
... ...	...	...	...	...	...	...	...	...	...	3	3
... ...	...	...	...	...	...	...	...	...	1	4	6
... ...	...	...	...	...	...	...	...	...	4	7	11
... ...	...	...	...	...	...	...	...	...	...	3	3
and Terrace ...	...	...	...	...	1	1	1	...	...	3	6
... ...	...	...	...	...	...	...	...	...	1	1	2
... ...	...	...	...	...	...	...	...	...	...	1	1
... ...	...	...	...	...	...	...	...	1	...	4	5
Street ...	...	...	...	...	...	...	...	..	...	3	3
Total.... ...	...	...	1	1	13	4	12	9	5	181	225

CANTON WARD.

NAME OF STREET.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
[illegible] Place ...	...	...	...	...	...	2	...	...	1	...	3
[illegible] ...	...	...	...	...	...	...	...	...	...	...	...
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] ...	...	...	...	...	...	...	...	...	2	3	5
[illegible] ...	...	...	...	...	...	...	...	...	1	8	9
[illegible] Street	...	...	...	...	...	...	...	...	1	5	6
[illegible] Street	...	...	...	...	...	...	...	...	1	1	2
[illegible] ...	...	...	...	...	...	...	...	...	1	3	4
[illegible] Street	...	...	...	...	...	...	...	...	...	1	1
[illegible] ...	...	...	...	...	...	...	...	...	...	2	2
[illegible] ...	...	...	...	...	...	...	...	...	...	4	4
[illegible] Road	...	...	...	1	...	...	...	2	2	12	17
[illegible] Street	...	...	...	...	...	...	...	...	...	2	2
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Road	...	...	...	...	...	...	...	...	1	3	4
[illegible] Street	...	...	...	...	...	...	...	...	...	1	1
[illegible] Road	...	...	...	...	...	...	...	...	...	3	3
[illegible] ...	...	...	...	...	...	...	...	...	2	4	6
[illegible] Road	...	...	...	...	...	...	...	...	2	...	2
[illegible] ...	...	...	...	...	...	...	1	...	3	3	7
[illegible] Street	...	...	...	...	...	...	...	...	...	2	2
[illegible] ...	...	...	...	...	...	...	...	...	1	3	4
[illegible] Farm	...	...	...	...	...	...	...	...	1	...	1
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Road...	...	...	...	...	1	...	...	...	1	3	5
[illegible] Road	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	...	...	1	1	2
[illegible] Street	...	...	...	1	...	...	1	...	2	2	6
[illegible] Street	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	...	...	3	...	3
[illegible] Street ...	...	...	...	...	...	...	...	...	3	4	7
[illegible] Street ...	...	...	...	...	1	...	...	...	...	3	4
[illegible] Road	...	...	...	...	...	...	...	1	...	2	3
[illegible] Road	...	...	...	...	...	2	1	...	...	3	6
[illegible] Road and Place	...	...	...	...	...	...	...	...	1	4	5
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	...	...	...	...	4	4
[illegible] Street	...	...	...	...	...	...	...	...	1	...	1
[illegible] Road	...	...	...	...	1	...	...	...	2	4	7
[illegible] Road	...	...	...	...	...	...	...	1	1	...	2
[illegible] Street...	...	...	...	...	...	...	1	...	2	5	8
[illegible] Street	...	...	...	...	...	...	...	...	1	2	3
[illegible] Road	...	...	...	...	...	...	...	...	...	2	2
[illegible] Street	...	...	...	...	...	...	...	...	2	...	2
[illegible] Street	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	1	...	...	...	1	1	3
[illegible] ...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Street	...	...	...	...	...	1	...	...	...	1	2
[illegible] Street, Terrace and Place...	...	...	...	...	...	...	...	...	1	1	2
[illegible] Road	...	...	...	...	...	...	...	...	...	3	3
[illegible] Road	...	...	...	...	...	...	...	1	3	5	9
[illegible] ...	...	...	..	...	...	...	...	...	3	8	12
[illegible] Terrace	...	...	...	...	...	...	...	...	1	1	2
[illegible] Road	...	...	...	...	...	...	...	...	...	4	4
[illegible] Road...	...	...	...	...	...	...	...	...	...	6	6
[illegible] Road and Crescent	...	...	...	...	...	...	...	...	...	6	6
[illegible] Street...	...	...	..	...	...	...	...	1	...	2	3
[illegible] Terrace...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Crescent	...	...	...	...	1	...	...	...	...	1	2
[illegible] Road...	...	...	...	...	...	...	...	...	...	1	1
[illegible] Road ...	...	...	...	...	...	1	...	...	2	4	7
[illegible] Field	...	...	...	...	...	...	...	...	...	1	1

CANTON WARD—Continued.

NAME OF STREET.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
[illegible]field Place	...	...	...	...	1	...	1	1	2	3	8
[illegible] Street	...	...	...	...	...	...	...	...	...	1	1
[illegible]ston Street	...	...	...	...	...	...	...	...	...	1	1
[illegible]ld Road	...	...	...	...	...	...	...	...	...	4	4
[illegible]ner Cottages	...	...	...	...	...	...	...	...	...	1	1
[illegible]er Road...	...	...	..	...	...	...	...	...	...	1	1
[illegible]erville Place	...	...	...	...	1	...	...	1	...	1	3
Westmoreland Street	...	...	...	...	...	...	...	...	1	3	4
[illegible] Street	...	...	...	...	...	...	...	...	1	2	3
Wellington Street	...	...	...	...	...	...	...	1	2	2	5
Westbury Terrace	...	...	...	...	...	...	...	...	...	1	1
Wilma Street	...	...	...	...	...	...	...	...	1	...	1
Worby Road	...	...	...	...	...	...	...	...	1	...	1
Total	...	...	2	6	8	...	10	14	59	176	275

DIVISION WARD.

NAME OF STREET.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Cholera.	Phthisis.			
...	...	...	...	...	...	...	...	...	...	1	1
... Street	...	...	...	...	...	...	...	...	1	2	4
...	...	...	...	...	...	...	...	...	1	4	5
... Street	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	...	...	..	2	...	12	14
...	...	...	...	...	...	...	...	...	1	8	9
... ... et and Gardens	...	...	...	...	...	...	...	...	...	3	3
... Medical Road	...	...	..	...	1	..	..	...	3	6	12
...	...	...	.	.	...	...	...	...		1	
... Street and Gardens	...	...	..	..	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	..	...	3	4
...	...	...	...	...	...	...	...	..	...	4	8
...	...	...	...	...	...	...	...	.	1	4	5
...	...	...	...	...	..	...	...	..	.	4	5
...	...	...	.	.	..	...	...	...	...	1	3
...	...	...	...	...	..	...	...	.	...	5	6
...	...	...	...	...	1	...	...	...	1	3	12
...	...	...	...	...	..	...	...	...	...	1	4
...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	3	4
...	...	...	...	...	...	...	...	...	1	2	6
...	...	...	...	...	1	...	...	...	...	..	1
...	...	...	..	..	..	...	...	...	1	4	5
...	...	...	.	...	...	...	...	...	1	..	2
...	...	...	...	...	...	...	..	...	..	1	1
...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	..	1	...	1
...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	4	4
...	...	...	...	...	...	...	...	...	..	3	3
...	...	...	...	...	...	...	...	...	1	1	2
...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	1	...	...	1	1	2	5
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	1	1	2
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	1	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	1	...	...	1	4	6
... house	...	...	...	...	...	...	...	46	28	7	
... Street	...	...	...	...	1	...	...	...	2	9	
... Crescent	...	...	...	...	...	...	...	1	1	3	
...	...	...	...	...	...	...	...	1	...	3	
... Street and Place	...	...	...	...	...	...	...	...	3	3	
...	...	...	...	...	1	...	...	1	...	1	
...	...	...	...	...	3	-	-	58	62	17	

...RAN...ET...VN WARD.

NAME OF STREET.	Scarlatina.	Measles.	Small-pox.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	1	1	...	...	...	...	2	5
...	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	2	3
... Street	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	...	1
... Place	...	...	...	...	...	...	...	...	...	1	2
... Road	...	...	...	1	2	...	...	...	...	5	12
...	...	...	...	1	...	...	...	1	3	12	17
... Street	...	...	...	...	1	...	...	...	...	1	3
...	...	...	...	...	...	...	...	...	...	1	2
...	...	...	...	...	1	...	...	2	...	2	8
...	...	...	...	1	2	1	...	...	3	3	9
...	...	...	...	...	...	1	...	...	...	3	6
...	...	...	...	...	...	...	1	...	...	...	1
...	...	...	...	...	4	...	1	1	...	4	11
... and Place...	...	...	1	...	...	...	...	...	...	...	5
... and Place ...	...	...	...	...	...	...	...	...	...	6	11
... and Place ...	...	...	...	...	...	...	...	1	...	4	8
...	...	...	...	...	1	...	...	...	1	2	4
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	1	...	...	1	...	3	6
...	...	...	...	...	1	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	1	3	4
...	...	...	...	...	...	...	...	...	...	2	2
... and Terrace	...	...	...	1	...	...	...	...	1	6	10
...	...	...	...	...	...	...	1	1	1	2	5
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	3	...	...	...	1	3	8
...	...	...	...	...	1	...	1	...	1	1	4
...	...	...	...	...	...	...	...	...	1	3	5
...	...	...	...	...	...	1	...	...	...	3	4
...	...	...	...	...	1	...	...	...	...	1	2
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	4	4
...	...	...	...	1	...	...	...	...	...	...	1
...	...	...	...	...	1	...	1	...	1	3	8
...	...	...	...	...	...	...	...	...	...	1	1
... Street	...	...	...	...	1	...	...	...	...	4	10
...	...	...	...	...	...	...	1	...	1	6	10
...	...	...	...	...	1	...	1	...	1	7	10
...	...	...	...	...	...	...	1	1	1	7	17
...	...	...	...	...	2	...	...	...	1	2	5
...	...	...	...	...	1	...	...	...	...	4	5
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	3	5	8
...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	1	3	4
...	...	...	...	1	2	...	1	...	...	1	5
...	...	...	...	...	...	...	1	...	1	...	2
...	...	...	...	...	...	...	...	...	...	3	3
...mead	...	...	...	...	1	...	...	1	1	3	7
...Rland	...	...	...	...	...	...	...	...	...	6	7
...	...	1	...	29	...	4	...	...	1	4	32
...rant	...	...	...	...	1	...	...	...	...	...	1
...	...	...	...	...	...	...	...	1	1	5	8
...	...	...	...	...	...	...	...	...	...	1	1
...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	...	...	3
...ick ...	...	...	...	...	...	...	...	1	1	1	7
...	...	1	...	31	23	5	10	13	17	12	...

ROATH WARD.

NAME OF STREET.	Small Pox.	[illegible]	Scarlet Fever.	Diphtheria.	[illegible] Cough.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	...	...	[illegible]	..	[illegible]
[illegible]	...	...	...	...	...	...	[illegible]	...	[illegible]	[illegible]	[illegible]
[illegible]	...	[illegible]	...	...	...	[illegible]	..	[illegible]	...	...	[illegible]
[illegible]	[illegible]	[illegible]	...	...	...	..	...	...	...	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	...	...	...	...	.	...	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	...	[illegible]	...	.	..	...	[illegible]	[illegible]	[illegible]
[illegible]	..	...	...	...	...	...	..	.	[illegible]	[illegible]	[illegible]
[illegible]	...	[illegible]	...	...	...	.	...	...	[illegible]	.	[illegible]
[illegible]	...	...	...	...	...	...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	[illegible]	[illegible]	...	...	[illegible]
[illegible]	...	...	...	...	...	...	...	...	...	[illegible]	1
[illegible]	...	...	...	...	..	[illegible]	...	...	...	[illegible]	1
[illegible] Crescent	...	...	...	...	...	...	..	...	3	2	[illegible]
[illegible]	...	...	...	...	...	...	...	...	2	..	[illegible]
[illegible]	[illegible]	...	...	1	...	...	...	..	...	[illegible]	[illegible]
[illegible] Road and Place	[illegible]	[illegible]	...	...	...	...	...	..	[illegible]	[illegible]	2
[illegible]	...	...	...	...	...	...	...	...	...	[illegible]	2
[illegible]	...	...	...	...	...	...	...	[illegible]	2	[illegible]	[illegible]
[illegible]	...	[illegible]	...	...	...	...	...	[illegible]	2	[illegible]	[illegible]
[illegible]	...	...	..	...	...	...	..	...	1	3	[illegible]
[illegible]	...	...	..	...	...	...	..	...	1	..	[illegible]
[illegible]	...	...	...	...	...	...	1	...	2	2	5
[illegible]	[illegible]	[illegible]	...	...	...	...	...	[illegible]	2	[illegible]	8
[illegible]	[illegible]	[illegible]	...	...	...	...	...	..	1	1	2
[illegible]	...	...	...	...	...	...	1	[illegible]	1	[illegible]	[illegible]
[illegible]	...	...	...	...	...	[illegible]	...	[illegible]	1	2	[illegible]
[illegible]	..	[illegible]	...	...	...	...	..	..	...	1	[illegible]
[illegible]	..	[illegible]	...	...	...	...	[illegible]	..	...	2	3
[illegible] Crescent and Place	...	...	...	...	...	. .	...	[illegible]	4	13	18
[illegible]	...	...	...	...	...	...	...	...	1	...	1
[illegible]	...	...	1	...	1	...	...	...	3	5	10
[illegible] Terrace	...	...	...	...	...	...	...	...	1	[illegible]	9
[illegible] Street	...	...	...	...	...	...	...	...	...	[illegible]	2
[illegible]	...	...	...	...	...	...	...	...	...	[illegible]	1
[illegible] Place and Terrace	...	...	1	...	...	...	...	...	...	5	6
[illegible]	...	[illegible]	...	...	...	...	...	[illegible]	[illegible]	[illegible]	6
[illegible]	...	[illegible]	...	...	...	[illegible]	...	...	...	2	2
[illegible]	..	...	...	...	...	[illegible]	...	...	[illegible]	[illegible]	[illegible]
[illegible]	...	...	...	...	...	...	..	..	...	1	1
[illegible]			...	...	...	..	[illegible]	...	2	[illegible]	8
[illegible]			...	...	...	...	...	...	...	[illegible]	[illegible]
[illegible]			2	2	1	...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

P[illegible] V.[illegible] R.D.

[illegible]	[illegible]	[illegible]	[illegible]	Scarlet Fever.	Diphtheria.	[illegible]	[illegible]	Diarrhœa.	Phthisis.	Resp. [illegible]	Other Causes	Total.
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	1	4	6
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	...	...	7	8
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	2	2
[illegible]	[illegible]	[illegible]	[illegible]	...	...	1	...	...	...	2	4	7
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	1	1	...	...	2	4
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	3	3
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	...	1	4	6
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	2	8	5	15
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	1	...	1	3	7	12
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	...	1	4	6
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	1	1	...	...	2	4
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	2	2
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	1	4	7	14
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	1	...	...	...	...	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	1	1	...	2
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	1	...	6	8
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	1	2
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	1	3	3	7
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	...	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	2	...	...	...	2	7	11
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	3	4
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	2	9	11
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	1	2
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	2	3	5
Ly[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	...	1	1	3
Mont[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	1	...	...	1
May[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	3	4
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	1	...	6	8
[illegible]	[illegible]	[illegible]	[illegible]	...	1	1	1	...	3	1	5	13
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	2	2
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	...	1
Oxford	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	2	2	4
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	3	3
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	...	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	2	1	3
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	2	4	6
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	1	1	1	3	6
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	2	3	5
Rich[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	4	1	3	8
St[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	...	1
South[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	2	3	5	10
Sea[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	3	3
South[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	...	1
Tren[illegible]	[illegible]	[illegible]	[illegible]	...	...	1	...	1	2	3	12	18
[illegible]wstock	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	2	3
Upper	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	1	1	2
Vere	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
Wale[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
Wards	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	3	3
Wood	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	1	1
[illegible]	[illegible]	[illegible]	[illegible]	...	...	...	...	10	24	58	154	260

CARDIFF SANATORIUM.

The following Report of the Medical Superintendent shows that 1,177 cases were under ... during the year, as compared with 800 during the year 1900:—

Report for the Year 1901.	AGES.							
	0 to 5 years.	5 to 15 years.	15 to 25 years.	25 to 35 years.	35 to 45 years.	45 to 55 years.	55 to 65 years.	Totals.
Remaining in Hospital on 31st December, 1900:—								
Scarlet Fever	20	32	8	6	...	...	...	66
Enteric Fever	...	3	...	...	...	...	...	3
Diphtheria	16	35	...	4	...	...	...	55
Other Diseases (Plague) ...	...	...	...	1	...	...	..	1
Total ...	36	70	8	11	...	...	...	125
Admitted during the year ending 31st December, 1901:—								
Scarlet Fever	161	396	72	12	3	...	...	644
Enteric Fever	1	12	21	12	5	1	2	54
Diphtheria	126	168	30	15	2	...	...	341
Small Pox	2	1	...	4	3	1	...	11
Measles	...	...	1	...	...	...	...	1
Plague	...	...	...	1	...	...	...	1
Total ...	290	577	124	44	13	2	2	1052
Total under treatment in 1901	326	647	132	55	13	2	2	1177
Of the above there were Discharged during the year:—								
Scarlet Fever	136	357	65	17	3	...	...	578
Enteric Fever	1	15	19	8	5	1	2	51
Diphtheria	111	182	27	15	2	...	...	337
Small Pox	2	1	...	4	2	1	...	10
Measles	...	...	1	...	...	...	...	1
Plague	...	...	...	2	...	...	...	2
Total ...	250	555	112	46	12	2	2	979
Died:—								
Scarlet Fever	9	3	...	1	...	...	...	13
Enteric Fever	...	...	2	2	...	...	...	4
Diphtheria	18	12	...	...	...	...	...	30
Small Pox	...	...	...	...	1	...	...	1
Measles	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...
Other Diseases	3	...	2	...	...	...	1	6
Total ...	30	15	4	3	1	...	1	54
Remaining in Hospital on 31st December, 1901:—								
Scarlet Fever	36	68	15	...	...	...	...	119
Enteric Fever	...	...	...	2	...	...	...	2
Diphtheria	13	9	3	4	...	...	...	29
Small Pox	...	...	...	..	...	...	...	...
Measles	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...
Total ...	49	77	18	6	...	...	...	150
Total under treatment in 1901	326	647	132	55	13	2	2	1177

per cent. under treatment:—

Scarlet Fever	...	...	...	1·83
Enteric Fever	...	...	...	7·0
Diphtheria ...	...	...	...	7·6
Small Pox ...	...	...	...	9·1

B. W. BROAD, M.B.,

Medical Superintendent.

AND COUNTY PUBLIC HEALTH LABORATORY.

The following Tables show the work done in the Laboratory during the year 1901:—

The Tables are extracted from the Annual Report to the Laboratory Joint Committee by Dr. W. G. Savage.

TABLE I.

Specimens and Samples examined during 1901:—

Suspected Diphtheria	391
,, Typhoid Fever (Serum-diagnosis) ...	122
Sputum for Tubercle Bacilli	197
Examination for Special Organisms:—	
(of Anthrax, 2; Gonococcus, 16; Tetanus, 1) ...	
Pathological Examination of Growths	[illegible]
Examination of Urine (Chemical, &c.)	66
,, (Bacteriological)	13
Examination of Milk for Pathogenic Organisms:—	
(for Typhoid Bacillus, 9; for Diphtheria Bacillus, 8; Special Investigation, 21; General Examination, 3) ...	[illegible]
Diseased Meat	38
Pathological Fluids:—	
(for Chemical Poisons (Strychnine, 2; Phosphorus, 1), 3; Pathological and Chemical Examination, 13; Pus for Tubercle Bacilli, 7)	[illegible]
Blood (Pathological Examinations)	[illegible]
Bacteriological Examination of Soil	[illegible]
Investigation of suspected cases of Plague	[illegible]
... examined for Plague	[illegible]
... —Investigation of effect of Danysz Bacillus ...	[illegible]
Other special examinations (*e.g.*, Ice Cream for Typhoid Bacillus)	
Drinking Water—Bacteriological Examination ...	[illegible]
,, ,, Chemical Analysis	[illegible]
Sewage and Sewage Effluents	[illegible]
Total	[illegible]

From Table I. it will be seen that the total number of specimens examined was 1,528. The number of samples examined was 817. In Table II. the chief differences [illegible] 5 years are shown.

TABLE II.

Comparison between the specimens received in 1900-1901.

Nature of Examination.	1900.	1901.	Increase.
Suspected Diphtheria	243	391	148
,, Typhoid Fever ...	73	122	49
Sputum for Tubercle Bacilli ...	86	197	111
Water—Bacteriological Examination	119	282	163
Water—Chemical Analysis ...	198	250	52
Bacteriological Examination of Milk	12	41	29
Sewage Examination	11	26	15
Other Examinations	75	219	144
Total	817	1,528	711

As shown in Table II. there has been an increase of [illegible] specimens, indicating a wider appreciation of the value of the bacteriological and a marked increase in the work carried out.

A mere numerical enumeration, though a valuable index of work done, cannot be taken as an accurate estimation owing to the great differences in the amount involved in different examinations and investigations. As Table II. shews, however, there has been an increase of very great of work.

In Table III. the results of the examinations in connection with the diagnosis of Diphtheria, Typhoid Fever, and the examination of Sputum for the Tubercle Bacillus are briefly stated :—

TABLE III.

Nature of Examination.	No. of Positive Results.	No. of Negative Results.	Total.
Suspected Diphtheria	79	312	391
,, Typhoid Fever ...	62	60	122
Sputum for Tubercle Bacilli ...	88	109	197

The work done consists of work from Cardiff and from the Administrative County of Glamorgan, also some specimens from Swansea. Table IV. gives the number of specimens received from Cardiff and the County respectively. The samples from Swansea are included in the County figures.

In this table the results are divided into waters, including the drinking waters, the sewages and effluents, and specimens, the latter including all other examinations.

TABLE IV.

Source.	Waters Examined.	Specimens.	Total.
... ...	127	575	702
...e County	431	395	826
...l for 1901... ...	558	970	1,528

...noticed that more specimens were received from Cardiff, but a considerably ... waters were examined from the County. This table, while it shows the ...cimens and waters examined for the two bodies, can afford only an approxi... ...tive value of the institution to Cardiff and the County respectively. Thus ... ...e of the systematic routine water examinations to the County is merely ..., while, among other things, the extensive work involved in the investigation ... ...of plague, the detection of an actual case, and the investigation of the origin ... ...long the rats, all work for the borough, is not brought out.

...NITARY DWELLINGS.—Since the passing of the Housing of the Working ... a considerable amount of insanitary property has been dealt with under ... Act. The provisions of this part of the Act give power to the Sanitary Authority ... ...gistrates for a closing order against any house on the representation of the ... ...lth that it is unfit for habitation.

... ...e the premises are not put into a good sanitary condition, the Authority ... ...on that it is expedient to order the demolition of the dwelling.

... ...must be complied with within three months from the service of notice, in ... ...the Authority must demolish the building, selling all material and paying the ... ...expenses, to the owner.

... ...st the dwellings which have been permanently closed, either by a closing order ... ...action of the owner, during the preceding years and since the Act came into ... ...wing may be mentioned :—

... Court, 34 houses in Stanley Street, 12 houses in Leckwith Road, Kettle ... Union Buildings, Sandon Court, Dalton Court, Gainors' Court, Rising Sun ... (Womanby Street), The Tunnel (Queen Street), Temperance Terrace ...'s Place and Masons' Arms Court. In the latter part of the year 1900, ...mitted to your Health Committee upon the sanitary condition of a number of ... insanitary dwellings, and in the following year the Report was adopted and ...lt with 134 houses, containing an aggregate of 331 rooms, and a total ... time of inspection amounting to 395 persons, and related to the following ...ions of houses :—

Name of Court.	No. of Houses.	No. of Rooms.	No. of Inhabitants.
...ers' Arms' Court ...	7 ...	20 ...	24
... ...	3 ...	7 ...	5
... ...	2 ...	4 ...	5
... ...	7 ...	21 ...	34
... ...	5 ...	10 ...	17
... ...	4 ...	12 ...	16
... ...	5 ...	10 ...	2
... ...	5 ...	10 ...	15

List of Courts—Continued.

Name of Court.	No. of Houses.	No. of Rooms.	No. of Inhabitants.
[illegible] Court ...	2	4	4
[illegible] ...	3	7	7
[illegible] ...	1	3	1
[illegible] dings...	4	10	1
[illegible] ...	2	8	8
[illegible] ...	2	6	5
[illegible] ...	2	4	4
[illegible] ...	6	13	13
[illegible] ...	2	4	—
[illegible] ...	4	12	14
[illegible] Court ...	5	12	1
[illegible] ...	4	10	9
[illegible] ...	6	15	20
[illegible] Street Cottages ...	5	8	14
[illegible] Court ...	6	23	21
[illegible] ...	10	22	15
[illegible] ...	4	12	19
[illegible] ...	3	6	10
[illegible] ...	6	17	20
[illegible] ...	13	29	40

[illegible] shows that the largest of these Courts contained 13 houses, the majority of [illegible], and that the other premises were simply collections of two or three [illegible] the yard of some larger houses in the main street, and through which [illegible] was obtained. Insufficient ventilation and lighting and inadequate air space [illegible] common to them all. Many of the houses were without back yards or [illegible], and many depended for their water supply upon one common tap in the Court.

[illegible] closet accommodation was found to be generally insufficient and defective, and [illegible] for flushing. The recommendations contained in the Report were that in the [illegible] application should be made to the Magistrates for closing orders with respect to some [illegible] worst and most insanitary of these premises, and that the others should be dealt with [illegible]ly, either in the same way or under the Nuisance Removal clauses of the Public [illegible] Act. In this way no extensive displacement of people from their houses would take [illegible]. Application was accordingly made and closing orders were obtained with respect to the [illegible] premises:—Love Lane Court, Castle Court, Moulders' Arms Court, Bryant's Court, [illegible] Court, Harris Court, Stacey Court, and Picton Cottages.

With the view of ascertaining to what extent overcrowding of dwellings existed in the [illegible], I commenced in the year 1900 a special inspection in order to discover the average [illegible] per room in each house visited. The results of this inspection, which was [illegible] by the District Inspectors, is given in the Report for that year. During the year 1901, [illegible] been continued, and the following Table gives the information obtained. [illegible] to define the meaning of overcrowding, and in practice, when dealing with such cases [illegible] under the Public Health Act, each one has to be considered on its merit: but a [illegible] which may serve for general purposes is that given in the Census Report of 1891, [illegible] it is proposed that tenements should be overcrowded when occupied by more than two [illegible].

[illegible] Report for the year 1900 showed that out of 1,790 houses examined, 24 or 1·3 per [illegible] exceeded this limit.

In the Report for the year under consideration 3,757 houses were examined. Of these [illegible] per cent. contained more than an average of two occupants per room. It is evident, [illegible] overcrowding exists to a very limited extent in Cardiff.

TABLE XII.

HOUSES UNDER INSPECTION.

RENTALS PAID.

Name of Street.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	[illegible]	17	1	...	...
[illegible]	[illegible]	15	1	...	...
[illegible]	[illegible]	14	1	...	...
[illegible]	4	13	1	...	...
[illegible]	[illegible]	13	2	...	...
[illegible]	[illegible]	12	1	...	...
[illegible]	10	11	1	...	...
[illegible]	4	10	1	...	...
[illegible]	5	9	1	...	...
[illegible]	3	8	1	...	...
[illegible]	[illegible]	8	2	...	...
[illegible]	[illegible]	7	1	...	...
[illegible] Street ...	[illegible]	9	1	...	...
[illegible] ...	[illegible]	8	1	...	...
[illegible] ...	[illegible]	7	1	1	...
[illegible]	[illegible]	6	1	...	3
[illegible] ...	3	5	1	...	[illegible]
[illegible] ...	30	4	1	1	5
[illegible] ...	[illegible]	4	2	1	
[illegible] ...	[illegible]	2	1	...	
[illegible] Street .	30	7	1	...	1
[illegible]	6	7	2	...	[illegible]
[illegible] ...	2	6	1	...	...
[illegible] ...	[illegible]	6	2	...	[illegible]
[illegible] Road	3	7	1	...	...
[illegible] ..	6	6	1	...	[illegible]
[illegible] ...	[illegible]	6	2	...	2
[illegible] ...	[illegible]	5	1	...	...
[illegible] Street ...	5	6	1	...	2
[illegible] ...	[illegible]	[illegible]	1	...	...
[illegible] ...	[illegible]	5	1	...	...
[illegible] ...	[illegible]	8	1	...	...
[illegible] ...	[illegible]	7	1	...	...
[illegible] ...	[illegible]	6	1	...	...
[illegible] Road ...	[illegible]	12	1	...	...
[illegible] ...	3	9	1	...	...
[illegible] ...	[illegible]	8	1	...	...
[illegible] ...	[illegible]	5	1	...	...
[illegible]	[illegible]	7	2	...	[illegible]
[illegible]	[illegible]	7	1	...	...
[illegible]	6	6	3	...	[illegible]
[illegible]	12	6	2	...	[illegible]
[illegible]	16	6	1	...	[illegible]
[illegible]	[illegible]	4	3	...	
[illegible]	[illegible]	4	2	...	[illegible]
[illegible]	[illegible]	4	1	1	...
[illegible]	[illegible]	10	1	...	...
[illegible]	[illegible]	6	2	...	[illegible]
[illegible]	[illegible]	6	1	...	
[illegible] ...	[illegible]	5	3	...	
[illegible]	[illegible]	5	2	1	
[illegible]	15	3	1	...	
[illegible]	[illegible]	4	2	2	
[illegible]	[illegible]	4	[illegible]	...	[illegible]
[illegible]	[illegible]	[illegible]	3	...	
[illegible]	8	6	2	...	
[illegible]	6	6	1	...	

CENTRAL WARD—Continued.

NAME OF STREET.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible] Street ...	1	8	3	...	1
.. ..	1	7	3	...	1
.. ..	3	7	2	...	1
.. ..	6	7	1	...	3
.. ..	5	6	2	...	1
.. ..	13	6	1	...	2
.. ..	2	5	2	...	...
.. ..	1	4	2	...	1
.. ..	3	4	1	...	1
[illegible]	1	7	2	...	1
.. ..	15	7	1	...	4
.. ..	5	6	2	...	3
.. ..	21	6	1	...	6
.. ..	13	5	1	...	1
.. ..	2	4	1	...	1
.. ..	3	3	1	...	2
.. ..	2	2	1	...	...
[illegible]	355	502	105	7	97

PARK WARD.

NAME OF STREET.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible] Street ...	129	6	1	...	25
.. ..	3	6	2	...	3
[illegible] Street ...	9	7	1	.	1
.. ..	56	6	1	...	7
.. ..	1	6	2	...	1
.. ..	63	4	1	...	22
[illegible]	276	35	8	...	59

RIVERSIDE WARD.

NAME OF STREET.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	1	13	1	...	...
.. ..	9	8	1	...	...
.. ..	6	8	2	...	3
.. ..	1	8	3	...	1
.. ..	32	7	1	...	7
.. ..	8	7	2	...	5
.. ..	1	7	3	...	...
.. ..	24	6	1	...	1
.. ..	2	6	2	...	...
[illegible]	84	70	16	...	17

SPLOTT WARD.

	Number of Houses.	Number of Rooms per House.	Number of Tenements per House,	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
...	4	7	1	...	3
...	2	7	2	...	...
...	178	6	1	1	50
...	68	6	2	1	42
...	2	6	3	...	2
...	33	5	1	...	10
...	1	7	1	...	1
...	3	6	1	...	...
...	1	9	1	...	...
...	26	7	1	...	12
...	5	7	2	...	1
...	39	6	1	...	9
...	35	6	2	...	10
...	25	6	1	...	11
...	46	6	2	...	36
...	5	6	3	2	3
...	55	6	1	...	19
...	15	6	2	...	8
...	23	6	1	...	11
...	12	6	2	...	7
...	573	127	31	4	235

GRANGETOWN WARD.

	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
...	18	7	2	...	9
...	18	7	1	...	5
...	22	6	2	..	8
...	24	6	1	...	6
...	9	7	1	...	7
...	21	7	2	...	11
...	5	6	1	...	...
...	7	6	2	...	7
...	16	6	1	...	8
...	10	6	2	...	8
...	15	7	1	...	1
...	15	7	2	...	10
...	16	6	1	...	4
...	18	6	2	...	13
...	4	7	1	...	1
...	17	7	2	...	22
...	13	6	1	...	4
...	13	6	2	...	9
...	17	7	1	...	5
...	7	7	2	...	4
..	15	6	1	...	5
...	10	6	2	...	7
...	310	142	33	...	144

ADAMSDOWN WARD.

NAME OF STREET.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	16	6	1	...	10
... ...	5	6	2	...	3
... ...	1	5	1	...	...
[illegible] Street	10	7	2	...	6
... ...	10	7	1	...	5
... ...	1	6	3	...	...
... ...	[illegible]	6	2	...	1
... ...	[illegible]	6	1	...	1
[illegible] Street	[illegible]	6	2	...	1
... ...	10	6	1	...	3
... ...	1	5	2	...	1
... ...	1	5	1	...	3
[illegible] Street	1	8	1	...	1
... ...	1	7	3	...	1
... ...	2	7	2	...	2
... ...	1	7	1	...	1
... ...	1	6	3	...	...
... ...	1	6	2	...	2
... ...	1	6	1	...	...
[illegible] Street	2	6	2	...	...
... ...	1	6	1	...	1
... ...	3	5	2	...	3
... ...	1	5	1	...	4
... ...	3	4	1	...	1
... ...	1	3	1	...	...
[illegible] Street	1	6	1	...	...
... ...	2	4	1	...	2
[illegible] Terrace	1	6	1	...	1
... ...	5	4	1	...	3
[illegible] Street	1	20	8	...	...
... ...	2	12	1	...	...
... ...	1	10	4	...	1
... ...	1	10	3	...	...
... ...	1	9	6	...	1
... ...	2	9	5	...	2
... ...	1	9	4	...	1
... ...	1	9	3	...	...
... ...	2	9	1	...	...
... ...	1	8	6	1	...
... ...	2	8	5	...	2
... ...	1	8	3	...	1
... ...	3	8	2	...	2
... ...	2	8	1	...	...
... ...	1	7	2	...	1
... ...	2	7	3	...	3
... ...	3	7	2	...	3
... ...	[illegible]	7	1	...	1
... ...	[illegible]	6	2	...	1
[illegible] Street	3	6	1	...	...
... ...	[illegible]	6	1	...	1
... ...	3	5	2	1	2
... ...	[illegible]	5	1	...	...
[illegible] Court	[illegible]	4	1	...	1
... ...	[illegible]	3	1	...	3
[illegible]	4	2	1	2	...
[illegible]'s Court	[illegible]	4	1	...	...
... ...	[illegible]	4	1	...	...
[illegible] Victoria Street ...	3	7	2	...	2
... ...	3	7	1	...	2
... ...	[illegible]	6	2	...	6
... ...	15	6	1	...	8
... ...	[illegible]	4	1	...	...
[illegible] Street ...	[illegible]	8	2	...	...
... ...	[illegible]	6	3	...	...
... ...	[illegible]	6	2	...	3

ADAMSDOWN WARD—Continued.

Name of Street.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	11	6	1	...	5
... ...	1	5	3	1	...
... ...	1	5	2	...	1
... ...	2	5	1	...	1
... ...	[illegible]	4	3	...	1
... ...	2	4	2	...	2
... ...	3	4	1	...	2
[illegible]	2	4	1	...	1
[illegible]	1	9	1	...	...
... ...	3	7	3	...	3
... ...	6	7	2	...	4
... ...	6	7	1	...	3
... ...	5	6	2	...	3
... ...	2	6	1	...	1
... ...	1	5	1	...	...
... ...	4	4	1	...	2
[illegible]	8	7	1	...	...
... ...	5	6	1	...	1
... ...	21	4	1	...	5
[illegible]	11	7	2	...	5
... ...	6	7	1	...	1
... ...	1	6	3	...	1
... ...	2	6	2	...	1
... ...	5	6	1	...	1
[illegible]	1	8	2	...	...
... ...	1	6	4	...	...
... ...	6	6	2	...	5
... ...	17	6	1	...	7
... ...	1	3	1	...	...
[illegible]	369	593	181	5	159

CANTON WARD.

Name of Street.	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	3	7	1	...	...
... ...	23	6	1	...	6
... ...	11	6	2	...	7
[illegible]	1	8	1	...	.
... ...	37	7	1	...	5
... ...	12	7	2	...	5
... ...	43	6	1	...	5
... ...	3	6	2	...	...
... ...	1	5	1	...	...
[illegible] ...	1	6	4	...	...
...	13	6	2	...	9
...	23	6	1	...	8
[illegible]	9	6	2	...	8
... ...	35	6	1	...	16
[illegible] ...	10	6	2	...	9
...	29	6	1	...	12
[illegible]	12	6	2	...	8
... ...	32	6	1	...	5
[illegible]	1	5	2	...	1
... ...	9	5	1	...	4
[illegible] ...	1	5	2	...	1
[illegible] ...	20	5	1	...	6
[illegible] ...	329	132	34	..	115

C THAYS T RD.

	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of houses with more than average of two occupants per room.	Number of houses with less than average of two occupants per room.
...	1	7	2	...	1
...	33	6	...	...	11
...	26	6	...	1	19
...	19	5	...	...	9
...	3	5	2	...	2
...	1	7	...	...	...
...	42	6	...	...	7
...	33	6	2	...	20
...	3	5	...	...	1
...	1	10	...	...	...
...	1	9	...	...	...
...	7	6	...	...	2
...	4	4	...	...	2
...	12	6	...	...	2
...	2	6	2	...	...
...	10	4	...	...	3
...	2	2	...	...	...
...	1	7	...	...	1
...	1	7	2	...	1
...	16	6	...	...	6
...	5	6	...	...	3
...	2	5	...	...	...
...	25	4	...	...	16
...	1	8	...	...	...
...	3	6	2	...	2
...	14	6	...	...	2
...	1	4	...	...	1
...	69	7	1	...	11
...	1	7	2	...	1
...	1	7	1	...	...
...	1	6	3	...	1
...	19	6	2	1	9
...	38	6	1	...	7
...	2	5	2	...	2
...	25	5	...	1	10
...	2	4	...	...	...
...	1	10	...	...	...
...	4	9	...	...	...
...	1	8	1	...	...
...	24	8	...	...	1
...	13	7	2	...	6
...	64	7	...	...	12
...	3	6	...	...	2
...	13	6	...	...	3
...	550	273	6	3	17

SOUTH WARD.

... of ...	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
... ...	5	7	1	...	...
... ...	5	7	2	...	1
... ...	5	6	1	...	...
... ...	2	6	2	...	1
... ...	6	7	1	...	...
... ...	2	7	2	...	2
... ...	1	7	3	...	1
... ...	10	5	1	...	2
... ...	2	5	1	...	2
... ...	1	10	1	...	...
... ...	1	8	1	...	...
... ...	9	7	1	...	1
... ...	4	7	2	3	1
... ...	1	7	3	1	...
... ...	15	6	1	3	3
... ...	11	6	1	...	1
... ...	1	6	3	1	...
... ...	1	12	1	...	...
... ...	1	10	1	...	...
... ...	1	8	1	...	...
... ...	2	7	1	...	1
... ...	6	7	1	...	1
... ...	1	6	1	...	...
... ...	16	6	1	...	3
... ...	5	7	2	...	...
... ...	12	7	1	...	1
... ...	1	7	1	...	1
... ...	5	6	1	...	1
... ...	20	6	1	...	3
... ...	1	12	2	...	...
... ...	3	8	1	...	...
... ...	7	7	1	...	1
... ...	9	7	1	...	...
... ...	10	6	1	...	3
... ...	18	6	1	...	...
... ...	1	5	1	...	...
... ...	1	9	1	...	...
... ...	1	8	1	...	...
... ...	5	7	1	...	3
... ...	12	7	1	...	...
... ...	5	6	1	...	...
... ...	...	5	1	...	...
... ...	2	5	1	...	...
... ...	2	8	1	...	...
... ...	1	7	1	...	1
... ...	2	6	1	...	1
... ...	8	4	1	...	...
... ...	5	5	1	...	2
... ...	247	827	7...	8	40

SOUTH WARD.

[illegible]	Number of Houses.	Number of Rooms per House.	Number of Tenements per House.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	[illegible]	6	1	...	[illegible]
[illegible]	14	6	2	1	10
[illegible]	46	6	1	...	13
[illegible]	23	6	2	1	17
[illegible]	2	6	2	...	2
[illegible]	[illegible]	6	1	...	[illegible]
[illegible]	[illegible]	6	2	...	[illegible]
[illegible]	1	8	1	...	...
[illegible]	2	4	1	...	2
[illegible]	33	6	1	...	13
[illegible]	29	[illegible]	2	1	2[illegible]
[illegible]	1	5	3	...	1
[illegible]	8	6	1	...	1
[illegible]	8	4	1	...	...
[illegible]	[illegible]	6	1	...	1
[illegible]	[illegible]	4	1	...	9
[illegible]	[illegible]	6	1	...	...
[illegible]	43	4	1	...	20
[illegible]	5	6	2	...	3
[illegible]	38	6	1	...	8
[illegible]	1	4	1	...	...
[illegible]	2	6	2	...	...
[illegible]	41	6	1	...	11
[illegible]	[illegible]	[illegible]	[illegible]	...	[illegible]
[illegible]	[illegible]	[illegible]	2	...	1
[illegible]	9	[illegible]	2	...	[illegible]
[illegible]	27	6	1	...	14
[illegible]	15	6	[illegible]	...	10
[illegible]	[illegible]	6	1	...	16
[illegible]	[illegible]	6	2	...	6
[illegible]	[illegible]	6	1	...	11
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SUMMARY OF FOREGOING TABLES.

WARDS.	Number of Houses.	Number of Houses with more than average of two occupants per room.	Number of Houses with more than average of one occupant per room.
[illegible]	355	7	97
[illegible]	276	0	59
[illegible]	94	0	17
[illegible]	604	3	259
[illegible]	573	4	235
[illegible]	530	3	178
[illegible]	380	0	144
[illegible]	247	8	46
[illegible]	369	5	159
[illegible]	329	0	115
[illegible]	3,757	30	1,289

INSPECTION OF WORKSHOPS.—A very important duty devolves upon Sanitary ... the supervision of the conditions, relating to health, under which persons engaged ... work-places carry on their daily work. The Factory and Workshop Act, 1901, ... alterations in, and additions to, the duties hitherto falling upon Medical ... The Act consolidates and amends all previous Acts relating to Factories and ... and contains several altogether new clauses.

... complete report of the Town Clerk upon this Act, which has already been ... contains the following concise account of the provisions relating to ...:—

... 132 of the Act of 1901, the Medical Officer of Health is required, in his ... to deal specifically with the administration of the Act (so far as the matters ... the Sanitary Authority are concerned), and to send a copy of this Report to ...

... work carried out during the year 1901 is shown in the subjoined tables.

Factories.

... Factories: ... is entrusted with the duty of ... district is provided with means of escape in case of fire; and also has special ... domestic factories and underground bakehouses. These duties apply also in ... workshops, and will be further referred to below. Another duty in regard to factories ... the requirement in sec. 22 of the Public Health Acts Amendment Act, ... provision of suitable and sufficient sanitary conveniences.

Workshops and Workplaces.

... workshops and workplaces, District Councils have important duties, which ... under four heads: (1) the sanitary condition of workshops and workplaces ... of means of escape from fire; (3) special sanitary regulations for bake-...

Sanitation (secs. 2, 3, 7 and 8 of Act).

... Council is made the authority responsible for the sanitary condition of the ... workplaces in its district, while the Factory Inspector is responsible for the ... of factories. "Sanitary conditions" include (*a*) the cleanliness, (*b*) air space, ... drainage of the floors of workshops and workplaces. For these purposes ... of the Public Health Act, 1875, apply and are supplemented by additional ... Factory Act. The other sanitary provisions in Part I. of the Act, viz., with ... and sanitary conveniences (secs. 6 and 9) are not brought under the law ... Health, and will therefore be enforced by the Factory Inspector and not by ...

... visions of the Act in the matters above-mentioned, which it is the duty of a ... to enforce, are as follows:—

... (sec. 2).—Every workshop and workplace must be kept in a cleanly state ... and if not so kept may be dealt with by the Council as a nuisance under ... Public Health Act, 1875.

... medical officer of health, or the inspector of nuisances, certifies that it is necessary ... the persons employed that a *workshop*, or any part of a workshop, should be ... limewashed or purified, the Council may give notice to the owner or occupier of the ... to carry out such limewashing, cleansing or purifying as the case may require, within ... specified in the notice. If the person to whom the notice is addressed fails to comply ... the time specified, he will be liable to a penalty of 10s. for each day during which the ... continues, and the Council may themselves undertake the work and recover the expenses ... summary manner.—[Sec. ...

(2) *Air Space* (secs. 2, 3).—Workshops and workplaces must not be overcrowded while [illegible] so as to be dangerous or injurious to the health of the persons employed, and [illegible] or workplace which is overcrowded may be dealt with as a nuisance under sec. 91 of [illegible] Health Act. A *workshop* is deemed to be overcrowded unless in each room at least [illegible] of air space (or during overtime 400) are allowed for each person employed in the [illegible] Act requires a notice to be affixed in the workshop specifying the number of [illegible] may be employed in each room of the workshop. In the case of a workshop not [illegible] workshop, which is occupied by night as a sleeping apartment, the Secretary of [illegible] by order alter this amount—3 (3).

(3) *Ventilation* (sec. 2).—Every workshop and workplace must be ventilated in such a [illegible] to render harmless as far as practicable any gases, vapours, dust or other impurities [illegible] in the course of the work that are a nuisance or injurious to health. Any workshop or [illegible] not so ventilated may be dealt with as a nuisance under sec. 91 of the Public Health [illegible].

This general provision is supplemented in the case of workshops by a special requirement [illegible] for the first time by the Act of 1901 (sec. 7) that in every room in a workshop [illegible] means of ventilation must be provided and sufficient ventilation maintained, and where [illegible] of sufficient ventilation has been prescribed by the Secretary of State for any class of [illegible], that standard must be observed. Workshops, however, *where men only are employed* [illegible] from the operation of this requirement. Any workshop where this requirement is [illegible] may be dealt with as a nuisance.

(4) *Drainage of floors* (sec. 8).—A provision introduced for the first time by the Act of [illegible] requires that in every workshop or part of a workshop in which any process is carried on [illegible] renders the floor liable to be wet to such an extent that the wet is capable of being [illegible] by drainage, adequate means shall be provided for draining off the wet. A workshop [illegible] may be dealt with as a nuisance under sec. 91 of the Public Health Act. This [illegible], however, does not apply to workshops in which men only are employed.

(5) *Sanitary accommodation.*—Every building used as a workshop or manufactory, or [illegible] persons are employed or intended to be employed in any trade or business, must [illegible] be provided with sufficient and suitable accommodation in the way of sanitary conveniences (sec. 22). [illegible] report from the surveyor that this requirement is not observed in the case of any building, [illegible] Council may serve a written notice on the owner or occupier requiring him to make such [illegible] additions or alterations as may be required for the purpose.

(iii.) *Bakehouses.* (Secs. 97—102).

Bakehouses are either factories or workshops within the meaning of the Act according [illegible] mechanical power is or is not used in aid of the processes carried on. They are, therefore, [illegible] subject to the general provisions of the Act; and the [illegible] Council in regard to bakehouses that are exercised by them in regard to factories and workshops.

A general power is also given to the Council in the case of any bakehouse which is in [illegible] a state as to be on sanitary grounds unfit for use or occupation as a bakehouse to bring the [illegible] before a court of summary jurisdiction; and the Court may thereupon impose a fine of £2 [illegible] £5 or £5 (if a subsequent offence), and, either in addition to or in lieu of imposing [illegible] [illegible] to be adopted for the purpose of removing the ground of complaint—(secs. [illegible]).

In addition to the general regulations of the Act, special sanitary regulations for bake-[illegible] contained in the Act. These regulations (sec. 97) require that—

A bakehouse must not contain or communicate directly with a water closet, earth [illegible], privy or ashpit; a cistern supplying water to a bakehouse must be separate from any [illegible] supplying water to a water closet; and a sewage pipe or drain must not have any opening [illegible] bakehouse. The penalty for any contravention is a fine not exceeding £2 both on the [illegible] on the person letting or suffering the bakehouse to be occupied, and a further fine [illegible] 5s. for each day occupied after [illegible].

... inside walls and ceilings of rooms and all passages and staircases must be lime-... six months, or coated with three coats of paints or varnish every seven years, and ... hot water and soap every six months; if not, the bakehouse will be deemed not to ... conformity with the Act—99 (1).

... on the same level with a bakehouse and forming part of the same building ... sleeping places unless effectually separated from the bakehouses by a partition ... and provided with an external glazed window 9 square feet, of which ... can be opened:—for a first offence a penalty of £1 and for a second or subsequent offence ... may be imposed both on the person occupying and on the person letting or ... place to be occupied—(100).

... regulations will in the case of all *retail* bakehouses be enforced by the Council; ... " meaning any bakehouse or place in which no mechanical power is used, ... cakes, or confectionery baked in which are sold not wholesale, but by retail, in ... place occupied with the bakehouse. The medical officer of health is, for the ... all the powers of entry, inspection, taking legal proceedings, and otherwise of a ...

... new duties are placed by ... of the Act on Councils in ... bakehouses:—

... The Act provides generally that no underground bakehouse shall be used as such ... used ... the 17th August last: this provision it will be the duty of the Council to ... the case of retail bakehouses.

... ever, after 1st January, 1904—that is, after a period of two years from the ... Act—it will not be lawful to use any underground bakehouse (whenever ... the Council are satisfied that it is suitable for the purpose in regard to ... ventilation, and in all other respects, and have given it a certificate of ... This provision will apply to all bakehouses, whether wholesale or retail.

... bakehouse will be deemed an underground bakehouse if any room used for baking, ... incidental thereto, is so situate that the surface of the floor is more than 3 feet ... the surface of the footway of the adjoining street, or of the ground adjoining or nearest to ...

... underground bakehouse used in contravention of these provisions will be deemed to ... kept in conformity with the Act.

(iv.) *Home Work.* (Secs. 107—115).

... of controlling the conditions under which certain classes of work are done in the ... the workers are given to Borough Councils by the Act of 1901. These powers aim at ... of home work being done (1) in dwellings which are injurious or dangerous to the ... the workers themselves, *e.g.*, through overcrowding, want of ventilation, or other ... conditions; (2) in premises where there is dangerous infectious disease.

... provisions of the Act are as follows:—

... *Unwholesome dwellings.*—If any place in which home work is being done in con-... the business of a factory or workshop is injurious or dangerous to the health of the ... there, the Council may, by notice to the occupier of the factory or workshop, or ... employed by such occupier, prohibit him from giving out work to be done in ... (Sec. 108).

... power may be exercised also in the case of work given out from places other than ... workshops, *e.g.*, laundries, warehouses, shops, &c.—108 (2).

... power does not apply to all classes of home work, but only to those which may be ... by the Secretary of State. The classes of work in regard to which the power ... by the Council have been fixed by order dated 11th ...

The making, cleaning, washing, altering, ornamenting, finishing, and repairing of wearing apparel, and any work incidental thereto;

The making, ornamenting, mending, and finishing of lace, and of lace curtains and nets;

Cabinet and furniture making, and upholstery work;

The making of electro-plate;

The making of files; and

Fur-pulling.

(2) *Infected dwellings.*—If any inmate of a house in which home work is done is suffering from any infectious disease which is required by law to be notified to the local authority, the Council may, whether such inmate has been removed from the house or not, by order served on the occupier of any factory, workshop, or other place from which work is given out, or on any contractor employed by such occupier, prohibit him from giving out such work to any person [illegible] working in the house during such time as the Council may fix. In an emergency, the power may be exercised by any two or more members of the Council acting on the advice of the Medical Officer of Health—(sec. 110).

This power does not apply to all classes of work, but only to such as the Secretary of State may fix. The classes of work in regard to which the power may be exercised have been fixed by order dated 11th December, 1901, as follows:—

The making, cleaning, washing, altering, ornamenting, finishing, and repairing of wearing apparel, and any work incidental thereto;

The making, ornamenting, mending, and finishing of lace, and of lace curtains and nets;

Upholstery work; and

Fur-pulling.

In order that the Council may be kept fully informed as to the places in its district in which homework is being done, occupiers of factories, workshops, or any place from which work is given out, and contractors employed by such occupiers are required, in regard to such classes of work as may be fixed by the Secretary of State, to keep lists showing the names and addresses of all persons employed by them, either as workmen or as contractors outside such factory, workshop or place, and the place where they are employed, and to send to the Council [illegible] on or before the 1st February and the 1st August copies of such list—sec. 107.

In the event of any occupier failing to keep or to send such lists he will be liable to a fine not exceeding £2 for the first offence, and to a fine of £5 for a second or subsequent offence. Proceedings to recover the fine may be taken by the Council—107 (2).

It will be the duty of the Council to have the lists so sent to them examined, and if the place of employment of any outworker included in the list is in another district, to furnish his name and place of employment to the Council of that district—107 (2).

The list required to be kept by the occupier or contractor will be open to inspection by any duly authorised officer by the Council; and the Copies sent to the Council, and any particulars furnished to it by another Council, will be open to inspection by any of the Inspectors of Factories and Workshops—107 (3).

The classes of work to which these provisions apply have been fixed by order dated by [illegible] December, 1901, so as to include all those that have been fixed by him in regard to (1) and (2) above, as follows:—

The making, cleaning, washing, altering, ornamenting, finishing, and repairing of wearing apparel, and any work incidental thereto;

The making, ornamenting, mending, and finishing of lace and of lace curtains and nets;

Cabinet and furniture making and upholstery work;

[illegible]

[illegible]

Fur-pulling.

...s very important that the Council should be kept supplied with the proper lists, ...ggests that public notice of the provisions of sec. 107 should be given by means ...d posters.

Domestic Factories and Workshops.

... cases it will be found that dwellings in which homework is done will constitute ...shop, in consequence of the employment by the occupier of the dwelling, or ... persons on work which comes within the definitions in the Act. Such places ... the ordinary provisions of the Act with regard to factories and workshops. An ... is made for dwellings in which no mechanical power is used and the only ... are members of the same family dwelling there. These places (termed in the ... "Factories" and "Domestic Workshops") are exempted from many of the ... Act—(sec. 111).

... factories are exempted from the provisions in the Act as to the sanitation of ... made subject only, so far as sanitary conditions are concerned, to the provisions ... sec. 3; *i.e.*, if not kept in a cleanly state, or not ventilated in such a manner as ... as far as practicable, any gases, vapours, dust, or other impurities generated in ... work that are a nuisance or injurious to health, or so overcrowded while work is ... dangerous or injurious to the health of the workers, it is liable to be dealt with ... be deemed to be overcrowded unless in each room at least 250 cub... ... be enforced by the Council.

... workshops are exempted from the special provisions as to means of ventilation ... floors, but are otherwise, as far as sanitary conditions are concerned, to be ... workshops—sec. 111 (3).

... workshops in which work is only done at irregular intervals and does not ... principal means of living to the family, or in which certain classes of work ... (viz. ... pillow-lace making and glove making) are carried on are wholly exempt, ... come within the term "workplace"—(sec. 114).

... stic factory and workshop, however, in which any work is carried on that has ... Secretary of State as dangerous, is subject to all the provisions of the Act as ... ordinary factory or workshop—(sec. 112).

Administration.

... *Borough Council.*—For the purpose of their duties with respect to workshops ... the Act, and under the Public Health Acts, the Borough Council and their ... the same powers of entry, inspection, taking legal proceedings, or otherwise as a ... possesses (sec. 129). The powers of an Inspector as contained in sec. 119 of ... include the power to enter, inspect, and examine, to take a constable in cases in ... reason to apprehend any serious obstruction, to examine the persons found therein, ... production of documents, &c.

... *Register of Workshops.*—The Act places a duty on every Borough Council ... workshops situate within its district (sec. 131). To assist the Council in ... such ..., the Town Clerk understands that instructions have been given to the Factory ... allow the District Council to make copies of the register of workshops kept by the ... the Council will continue to receive (sec. 127) from the Inspector any notices of ... workshop which may be sent to him.

... *Medical Officer of Health.*—Under sec. 132 of the Act, the Council's Medical ... is required for the future in his Annual Report to the Council to report ... the administration of the Act in workshops and workplaces so far as the matters ... of the Council are concerned, and to send a copy of his report on the subject ... State. The matters which the report should specially deal with will be the ... within such places ... homework.

It is also the duty of the Medical Officer, if he finds any woman, young person, or child employed in a workshop *in which no abstract of the Act is posted up*, to inform the District Inspector of Factories in writing.

It will be seen that having regard to the numerous sanitary provisions of the Act and the new duties it imposes on Councils, it will add considerably to the work of the Medical Officer of Health.

Matters referred to Council by Factory Inspectors.—The Factory Inspector will, on finding in a factory or workshop, any act, neglect, or default in relation to a drain, water-closet, earth-closet, privy, ash-pit, water supply, nuisance, or other matter which is punishable or remediable under the Public Health Acts but not under the Factory Act, give notice to the Council of such act, &c.; and it will then be the duty of the Council to make enquiries into the matter, and take such action as may seem proper, and inform the Inspector of the proceedings taken. If proceedings are not taken by the Council within one month, the Inspector is authorised to take such proceedings as the Council might have taken, and to recover from the Council the expenses incurred by him which have not been recovered from any other person, and have not been incurred in any unsuccessful proceedings—(sec. 5).

The Inspector may take similar action for the purpose of enforcing in a factory or workshop the provision of means of escape in case of fire—sec. 14 (5).

In the event of a Council failing generally to carry out the provisions of the Act and the Public Health Acts with regard to factories, workshops, and workplaces, the Secretary of State may authorise a Factory Inspector during such time as he may fix to enforce those provisions. Inspectors so authorised will be entitled to recover from the Council any expenses incurred by them not recovered from any other person—(sec. 4).

General.—It is provided that the powers conferred by the Act on Councils shall be in addition to and not in substitution for any other power which they may possess.—(sec. 155).

INSPECTION OF FACTORIES AND WORKSHOPS.

UNDER THE FACTORY AND WORKSHOP ACTS, 1878-95, AND THE SHOP HOURS ACT, 1892-95, AND THE SEATS FOR SHOP ASSISTANTS ACT, 1899.

During the year a large number of workshops have been inspected. The results of these inspections are given in the annexed Tables :—

Nature of Workshops Inspected.	Number on Register.	Number of Inspections.
Bakers and Sugar Boilers ...	184	703
Tailors	176	578
Dressmakers	196	344
Milliners	51	80
Bootmakers	65	152
Carpenters and Joiners ...	39	93
Laundries	19	77
Bottlers	28	69
Wheelwrights and Smiths ...	23	65
Printers and Bookbinders ...	14	63
Packers	21	29
Cabinet Makers and Upholsterers...	32	46
Basket, Blind, and Mat Makers ...	8	41
Picture Frame Makers ...	15	39
Pipe Factory	1	1
Hose Manufacturers	3	2
Engravers and Jewellers ...	8	8
Tobacco Manufacturers ...	4	6
Pill Manufacturers	1	2

INSPECTION OF FACTORIES AND WORKSHOPS—*Continued.*

[illegible]	12	...	8
[illegible]	11	...	1
[illegible] Tile Manufacturers ...	2	...	1
[illegible] ...	8	...	4
[illegible]	3	...	4
[illegible]	4	...	5
Cycle and Machine Manufacturers	15	...	29
[illegible] and Electricians ...	18	...	15
[illegible]	14	...	3
[illegible] Works	1	...	1
[illegible] Works	2	...	3
[illegible]	1	...	1
[illegible]	1	...	2
Total	980		2,475

Notices of New Workshops from Inspector of Factories under Factory Act, 1891, [illegible] 2, Factory Act, 1895, Sec. 41 = 39.

Notices from Inspector of Factories *re* Sanitary Defects in Workshops, Sec. 4, Factory [illegible]ct, 1878 = 17.

[illegible] by Sanitary Authority to Inspector of Factories under Sec. 3, Factory and [illegible] = 11.

[illegible] by Sanitary Authority to Inspector of Factories *re* Overworking in [illegible] = 6

NUISANCES, &c.

	Bakers.	Tailors.	Dressmakers.	Carpenters.	Leather Workers.	Blanket Makers.	Millinery.	Basket and Mud Makers.	Printers.	Smiths.	Picture Frame Makers.	Laundries.	Bottlers.	Bootmakers.	Tobacco Manufacturers.	Mustard Moulders.	Cycle Manufacturers.	Engravers.	Packers.	Tile Factory.	Rope Works.
W.C. Accommodation provided	...	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. cleansed and repaired	...	16	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. limewashed or painted	...	3	6	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. ventilated	...	7	6	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. cleansed	...	137	11	2	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Washhouses prohibited	...	2	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Privies provided, required	...	12	13	6	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Do. cesspools abolished	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ashpits **drained**	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Animals kept	...	11	7	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Do. removed	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bad as ventilated	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Workrooms overcrowded	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. smoke	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
W.C. and stable in communication	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Upstairs W.C. ventilated	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Absence of privacy	...	3	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Water put on	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
Do. laid on	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Premises in Bakehouse abolished	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Privy abolished	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	198	80	33	19	4	10	3	8	14	16	7	11	10	3	1	1	1	1	1	1

Nature of Shops Inspected.	Number of Inspections.	Employing Young Persons.	Employing Females.	Seats Provided.
... ...	275	238	265	265
... ...	129	109	95	95
... ...	262	2 9	12	12
... ...	184	141	...	...
... baconists	175	136	94	94
... tationers	106	76	72	72
... ...	116	61	104	104
... ...	148	31	134	134
... .	34	32	2	2
... ...	132	85	51	51
... ...	43	38	4	4
... ...	9	6	1	1
... ...	54	42	3	3
... ...	24	17	3	3
... ...	37	27	31	31
... ...	2	2	...	...
... ...	4	3	2	2
... ...	55	28	55	55
... ...	4	3	...	...
... ...	2	2	...	...
... ...	2	...	...	...
Total	1,823	1,326	928	928

...SERVATIVES IN FOOD.—Owing to certain legal and technical difficulties ... considerable variety amongst Sanitary Authorities in the method of ... ...ls to which chemical preservatives have been added.

... consequence of the difficulties surrounding the question a Departmental Committee ... ...ment Board was appointed in July, 1899, to inquire whether the use of pre... ...louring matters in food in certain quantities is injurious to health, and if so, ...their use becomes injurious. The Committee has quite recently issued its Re... ...re of great value as a guide to future action under the Sale of Food and Drugs Acts. ... of the Report which deals with milk is of particular value, as it contains a rec... ...prohibit entirely the use of preservatives or colouring matter in milk. The Co... ...ed that it is quite possible to carry on the milk trade without these added sub... ...eport also recommends the prohibition of the use of Formaldehyde in articles of ... ...alicylic Acid should not be used in larger proportion than one grain in a pint ... ...od, that in the case of cream, butter, and margarine only boric acid or borate of ... ...permitted, and these only in quantities not exceeding quarter per cent. in ... ...per cent. in butter or margarine. In all cases when these substances are used their ... ...and quantity is to be distinctly marked. The Report also recommends the ... ...tion of a Board of Reference should be established, to exercise supervision over the use of preser... ...colouring matters in foods, and to prepare schedules of such as may be consi... ...to the public health.

... MILK REGULATIONS, 1901.—These Regulations for the first time fix a Stand... ...in the case of milk, and an important guide to Local Authorities in their proceed... ...the Sale of Foods and Drugs Acts.

... ...ulations were made by the Board of Agriculture under the powers conferred by the ...0, and came into force on the 1st September, 1901. They are as follows:—

(1) Where a sample of milk (not being sold as skimmed or separated or condensed milk) [illegible] Sale of Food and Drugs Acts, 1875 to 1899, until the contrary is proved, that the milk is not genuine, by reason of the abstraction therefrom of milk-fat or the addition thereto of water.

(2) Where a sample of milk (not being sold as skimmed or separated or condensed milk) contains less than 8·5 per cent. of milk-solids other than milk-fat, it shall be presumed, for the purposes of the Sale of Food and Drugs Act, 1875 to 1899, until the contrary is proved, that the milk is not genuine, by reason of the abstraction therefrom of milk-solids other than milk-fat, or the addition thereto of water.

(3) Where a sample of skimmed or separated milk (not being condensed milk) contains less than 9 per cent. of milk-solids, it shall be presumed, for the purposes of the Sale of Food and Drugs Acts, 1875 to 1899, until the contrary is proved, that the milk is not genuine, by reason of the abstraction therefrom of milk-solids other than milk-fat, or the addition thereto of water.

The subjoined Table gives the average percentage composition of genuine cows' milk, [illegible] taken from the results of a very large number of analyses.

From this it will be seen that the limits fixed by the Regulations are by no means high, [illegible] It is pointed out in the Memorandum of the Board of Agriculture, that the limits below [illegible] presumption is raised that the milk is not genuine were necessarily fixed at figures lower [illegible] which are usually afforded by genuine milk, in which the proportion of milk-fat and [illegible] solids very frequently exceeds the percentage specified.

Attention is also called to the fact that there may occasionally be cases in which a [illegible] genuine milk may fall below these limits, and that in such cases it is advised that the [illegible] may give the vendor the opportunity of making an explanation, and that if [illegible] there they are able to accept, they might, in the exercise of their discretion, [illegible] of proceedings. In such cases it is advised also that further samples [illegible] in order that a satisfactory conclusion as to the character of the milk [illegible].

Average composition by weight of Cows' Milk :—

Constituents.	Per Cent.
Fat	3·76
Casein, Albumin, &c.	3·50
Sugar	4·75
Ash	0·72
Water	87·27

MEAT INSPECTION AND FOOD SUPPLY.—During the year the work carried [illegible] ing has been exceedingly heavy and in excess of that of any preceding year.

[illegible] part of this work in the Public Slaughter Houses falls upon Mr. C. Moir, [illegible].

[illegible] 1900, by an arrangement between the Health Committee and the Property [illegible], Mr. N. Rees, the Superintendent of the Heath Abattoirs, and three of [illegible] appointed to assist in the Inspection of Meat at the Public Slaughter Houses. [illegible] a special Inspector, Mr. Macgregor, who was formerly a Butcher, was [illegible] purpose of [illegible] food in shops. Further, the Cardiff Port Sanitary [illegible] Chief Port Sanitary [illegible], Inspector under the Contagious [illegible], to carry out the "Orders" of the Board of Agriculture made under that

...ent time the inspection of meat is carried out in a very complete manner.

...ty of the Chief Inspector, Mr. Moir, who is a Veterinary Surgeon, to inspect ... within the Borough, his attention is also called to any carcase suspected ... unsound; having formed his opinion as to the nature of the disease or defect ... Officer of Health, without whose consent no meat is condemned as unfit

... Table gives the amount of meat in pounds, found by the Medical Officer ... for food, and destroyed either with the consent or by an order of a ... year during the period 1891-1901:—

Year				
...	...	...	...	...
...	...	...	...	1,326 ,,
...	...	...	...	6,214 ,,
...	...	...	...	3,209 ,,
...	...	...	...	4,523 ,,
...	...	...	...	3,896 ,,
...	...	...	...	10,824 ,,
...	...	...	...	9,929 ,,
...	...	...	...	14,205 ,,
...	...	...	...	21,217 ,,
...	...	...	...	33,696 ,,

... the year 1901 the numb... of animals ... slaughtered in the Public Slaughter-h... ... as follows:—

			Roath Abattoir.	Canton Abattoir.
...ns...	...	...	6,505	761
...	...	...	38,085	5,909
...	...	...	3,664	311
...	...	...	21,131	3,597
			69,385	10,578

... SEIZED OR SURRENDERED DURING THE YEAR 1901.

Place of Seizure.				Number of Animals.	Number Condemned by Magistrate.	Number Destroyed by arrangement with Owner.	Total Weight in lbs.
Roath	...	...	...	61	2	59	25,675
Canton	...	...	...	5	1	4	1,984
...	...	...	...	19	0	19	2,548
Central	...	...	...	2	1	1	126
Butchers	...	...	...	4	2	2	275
...	...	...	...	91	6	85	30,608

ARTICLES OF FOOD SEIZED OR SURRENDERED DURING THE YEAR 1901.

[illegible]	Description of Articles Seized.	Condemned by Magistrate.	Destroyed by arrangement with owner.	Total Weight in lbs.
... .	6 Boxes of Tinned Food ...	...	1	972
.. ..	119 Tins of Preserved Food ...	1	..	357
... ...	10 Pieces of Bacon	1	...	130
... ...	10 Pieces of Bacon	1	...	300
. ...	2 Pieces of Bacon	1	...	14
... ...	2 Small Boxes of Bacon ...	...	1	15
.. ..	2 Bags of Pigs' Feet	...	1	160
... ...	4 Pieces of Mutton	1	...	9
... ...	1 Piece of Mutton	1	...	6
... ...	6 Pieces of Beef	1	...	10
... ...	2 Boxes of Fish	1	...	400
. ...	1 Piece of Beef	...	1	65
[illegible] ...	18 Boxes of Fish	...	1	450
.. ...	2 Boxes of Fish	...	1	200
Total	...	8	6	3,088

Summary of Work Performed by the Officers of the Medical Officer of Health.

The following tables show the nature and extent of the administrative work of the [illegible]. The work is carried out by Mr. D. Vaughan, Chief Inspector of Nuisances, and his [illegible], acting under the supervision of the Medical Officer of Health, and I have pleasure in [illegible] the Inspectors have performed their difficult duties in a very satisfactory manner.

For the purposes of inspection, the Borough is divided into six districts as follows:—

		Name of District Inspector
District No. 1 comprising ...	Canton Ward ... Riverside Ward ...	T. W. Warren, Cert. San. Inst.
.. No. 2 ..	Splott Ward ... part of Adamsdown Ward	W. Fisher, Cert. San. Inst.
.. No. 3 ..	Roath Ward ... part of Adamsdown Ward	F. Glover, Cert. San. Inst.
.. No. 4 ..	Central Ward ... part of Cathays Ward ...	S. Evans, Cert. San. Inst.
.. No. 5 ..	South Ward ... Grangetown Ward	J. W. Holden, Cert. San. Inst.
.. No. 6 ..	Park Ward ... part of Cathays Ward ...	S. M. Henderson, Cert. San. Inst.

FOR THE YEAR 1901.

CENTRAL WARD.

Number of Houses Inspected.	Defective Drains.	Defective W.C.	Inside Closets not ventilated.	Outside Closets not ventilated.	Dampness of Premises.	Other Nuisances.
...	...	1	...	42	...	5
...	...	...	...	7	...	...
...	...	...	...	7	...	...
...	...	...	...	11	...	...
18	...	...	3	13	12	...	3
...	...	...	...	6	5	...	1
51	3	...	3	40	36	...	12
46	6	...	...	47	42	...	14
57	3	1	...	51	57	56	5	15
16	...	...	...	17	16	16	...	3
40	8	...	5	42	40	37	7	11
68	4	2	...	1	6	63	50	2	23

CATHAYS WARD.

Number of Houses Inspected.	Defective Drains.	Defective W.C.	Inside Closets not ventilated.	Outside Closets not ventilated.	Dampness of Premises.	Other Nuisances.
12	...	...	...	...	...	5
2	1	...	...	2	2	1	15
51	1	2	2	...	51	5	1	15
77	1	1	1	...	77	77	1	17
85	1	7	3	...	8	8	1	17
30	3	4	...	...	3	...	2	3
10	...	...	...	...	1	1	...	2
98	1	3	...	...	9	9	1	2
19	...	...	...	...	1	1	...	12
64	1	4	...	2	51	51	...	8
19	1	3	...	...	1	1	...	2
60	1	3	...	...	32	4	1	27

GRANGETOWN WARD.

Number of Houses Inspected.	Defective Drains.	Defective W.C.	Scullery Sinks connected with Drain.	Number of Water Closets.	Inside Closets not ventilated.	Outside Closets not ventilated.	Outside Closets not [illegible] W.	Dampness of Premises.	Other Nuisances.
12	...	...	...	12	...	...	...	...	1
45	...	1	...	45	...	...	...	1	18
25	...	...	...	45	...	...	...	...	13
67	...	...	...	67	...	...	...	1	18
23	...	...	...	23	...	...	...	...	8
26	...	...	...	26	...	...	...	...	11
25	...	...	...	25	...	...	...	...	9
88	...	...	...	88	...	...	...	...	24

SOUTH WARD

NAME OF STREET.	Number of Houses Inspected.	Choked Drains.	Choked Soil Pipes.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Soil Pipe.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Cesspools not properly trapped and ventilated.	Dampness of Premises.	Other Nuisances.
[illegible] Row	12	...	...	1	...	...	12	...	12	[illegible]	[illegible]	...
[illegible]	[illegible]	...	...	3	...	...	5	5	.	[illegible]	[illegible]	...
[illegible] Street	17	...	...	3	[illegible]	...	17	...	16	[illegible]	[illegible]	...
[illegible]	[illegible]	...	...	1	...	...	3	1	2	[illegible]	[illegible]	...
[illegible]	30	...	...	4	...	...	30	...	30	[illegible]	[illegible]	7
[illegible]	11	...	...	...	[illegible]	...	11	...	11	[illegible]	[illegible]	2
[illegible]	34	...	...	...	[illegible]	...	34	...	15	[illegible]	[illegible]	3
[illegible]	47	...	..	1	[illegible]	...	48	...	27	[illegible]	2	[illegible]
[illegible]	5[illegible]	...	...	11	2	...	50	...	50	[illegible]	[illegible]	11
[illegible] Street ...	44	...	...	6	...	...	44	...	44	[illegible]	5	12

ROATH WARD.

NAME OF STREET.	Number of Houses Inspected.	Choked Drains.	Choked Soil Pipes.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Soil Pipe.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Cesspools not properly trapped and ventilated.	Dampness of Premises.	Other Nuisances.
[illegible]	73	[illegible]	[illegible]	2	...	...	74	...	73	70	[illegible]	[illegible]
[illegible]	63	3	..	2	1	...	63	...	63	60	8	[illegible]
[illegible]	50	[illegible]	...	[illegible]	...	...	50	...	50	39	8	[illegible]
[illegible]	52	[illegible]	...	5	...	...	52	...	52	52	6	[illegible]
[illegible]	16	2	[illegible]	4	...	..	16	...	16	16	...	[illegible]
[illegible]	41	...	...	[illegible]	...	...	41	...	41	41	1	[illegible]
[illegible]	37	[illegible]	...	[illegible]	...	...	37	...	37	37	[illegible]	[illegible]
[illegible]	47	6	...	[illegible]	...	...	47	...	46	47	[illegible]	[illegible]
[illegible]	46	1	...	[illegible]	...	...	47	...	46	42	[illegible]	[illegible]
[illegible]	68	...	[illegible]	1	...	. .	65	...	65	65	[illegible]	[illegible]
[illegible]	31	[illegible]	[illegible]	1	...	...	31	...	31	31	[illegible]	[illegible]

CANTON WARD.

[illegible] OF STREET.	Number of Houses Inspected.	Choked Drains.	Choked Soil Pipes.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Soil Pipe.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Cesspools not properly trapped and ventilated.	Dampness of Premises.	Other Nuisances.
[illegible]	40	[illegible]	[illegible]	[illegible]	...	...	40	...	40	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	...	37	...	37	[illegible]	[illegible]	[illegible]
[illegible]	59	[illegible]	...	[illegible]	...	...	59	...	59	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	...	[illegible]	...	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	..	[illegible]	...	...	[illegible]	...	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	...	[illegible]	...	...	[illegible]	...	32	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	...	[illegible]	...	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	...	[illegible]	...	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	...	[illegible]	...	[illegible]	[illegible]	[illegible]	[illegible]

SPLOTT WARD.

NAME OF STREET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Soil Pipes not carried above Roof.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not ventilated.	Dampness of Premises.	Other Nuisances.
[illegible]	5	...	...	...	...	...	5	...	5	...	...	...
Rail	267	5	5	4	[illegible]	...	263	...	224	23[illegible]	[illegible]	103
ntopi	4	...	...	...	...	...	4	...	4	[illegible]	...	...
Marion	110	9	1	4	...	...	107	...	107	[illegible]	...	11

ADAMSDOWN WARD.

NAME OF STREET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Soil Pipes not carried above Roof.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not ventilated.	Dampness of Premises.	Other Nuisances.
[illegible]	27	...	...	2	[illegible]	...	27	...	27	[illegible]	...	12
[illegible]	[illegible]	...	...	[illegible]	[illegible]	...	30	...	30	[illegible]	...	[illegible]
[illegible]reet ...	33	5	...	[illegible]	...	...	33	...	33	[illegible]	1	20
[illegible]	2	...	...	[illegible]	[illegible]	...	2	...	2	[illegible]	[illegible]	[illegible]
[illegible] ...	31	...	...	[illegible]	[illegible]	...	31	...	17	[illegible]	[illegible]	23
Inc	[illegible]	...	[illegible]	[illegible]	[illegible]	...	2	[illegible]	[illegible]	[illegible]	...	[illegible]
Tyn	[illegible]	...	[illegible]	3	...	...	59	...	55	[illegible]	...	29
Nash	7	...	...	[illegible]	[illegible]	...	7	...	7	[illegible]	...	6
South	6	...	...	1	[illegible]	...	5	...	6	[illegible]	...	[illegible]
Garth	21	...	3	...	[illegible]	...	21	...	21	1	...	5
Dews [illegible] 1 and 2 ...	15	...	1	...	[illegible]	...	13	...	13	1	...	2
Dalkryn	9	2	...	...	[illegible]	...	9	...	9	[illegible]	...	[illegible]
Teilet	22	...	...	[illegible]	[illegible]	...	22	...	22	[illegible]	...	8
Taff	19	...	[illegible]	[illegible]	[illegible]	...	17	...	17	1	...	10
Morgan	23	...	...	[illegible]	[illegible]	...	23	...	23	[illegible]	...	16
Iver	9	...	...	...	[illegible]	...	9	...	9	[illegible]	...	[illegible]
Southey	[illegible]	1	1	2	[illegible]	...	[illegible]	...	14	1	...	11
Otot	35	[illegible]	...	7	[illegible]	...	37	...	35	[illegible]	[illegible]	9

RIVERSIDE WARD.

NAME OF STREET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Soil Pipes not carried above Roof.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not ventilated.	Dampness of Premises.	Other Nuisances.
Trevethick [illegible]	19	...	...	...	...	...	19	...	19	1	[illegible]	[illegible]
Kennie	29	1	...	2	...	...	29	...	29	[illegible]	1	[illegible]
Wells	[illegible]	6	[illegible]	9	...	...	53	...	53	[illegible]	[illegible]	11
Craddock [illegible]	150	6	[illegible]	8	...	...	152	...	148	13	27	35
Eldon	120	9	[illegible]	7	...	...	114	...	120	[illegible]	10	23
Halkat	52	7	1	9	[illegible]	...	52	...	50	[illegible]	21	31
East	16	5	1	4	[illegible]	...	16	...	16	1[illegible]	[illegible]	[illegible]

PARK WARD.

NAME OF STREET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not supplied with Water.	Dampness of Premises.	Other Causes.
Kennedy Street	137	1	...	1	...	...	142	...	135	78	25	31
[illegible] Street	50	...	...	9	...	...	51	...	50	50	1	4
[illegible] Street	31	...	...	5	...	...	31	...	31	31	13	29
[illegible]	9	...	...	...	...	...	7	...	9	9	...	4

INSPECTION OF COMMON LODGING HOUSES.—These houses are regulated by the provisions of the Public Health Act, 1875. Section 77 requires all Common Lodging Houses to be registered, and Section 80 empowers the Sanitary Authority to make Bye-Laws.

(1) For fixing and from time to time varying the number of lodgers who may be received into a Common Lodging House, and for the separation of the sexes therein.

(2) For promoting cleanliness and ventilation in such houses.

(3) For the giving of notices and the taking precautions in the case of any infectious diseases; and

(4) Generally for the well ordering of such houses.

In the year 1891, your Authority adopted Bye-laws which correspond closely with the "Model Bye-laws" of the Local Government Board.

COMMON LODGING HOUSES.

Total number on register	36
Registered rooms	132
Number of persons certified to accommodate	449
Day inspections	956
Night inspections	180
W.Cs. cleansed and repaired	46
,, supplied with water	3
Drains trapped and repaired	13
Special ventilation provided to rooms	16
Lime-washed	-
Yards paved	10
Accumulations removed	29
Registered	8
[illegible]	-

SEAMEN'S LODGING HOUSES.

Total number of applications	461
,, ,, Refused	66
,, ,, Relinquished	273
Total number of persons licensed	121
,, ,, houses, the occupiers of which have been licensed ...	122
Maximum number of lodgers authorised to be received in the above ...	1,239

SEAMEN'S LODGING HOUSES—Continued.

Number of day inspections...	3,608
,, night ,, ...	259
,, houses in which sanitary improvements have been effected ...	459

NATURE OF SANITARY DEFECTS :—

Defective water-closets	64
Insufficient W.C. accommodation	6
Defective drains	42
Defective paving in yards	18
Defective bedroom ventilation	23
Houses with walls and roofs out of repair	58
Infectious disease discovered	20
Lime-washed	248
Legal proceedings taken	7

SALE OF FOOD AND DRUGS ACT.

The following articles were analysed during the year by Dr. Thomas Taylor, M.D., ... Borough Analyst :—

	Number of Samples.	Number of Genuine Samples.	Number of Samples Adulterated.	Fines.
...	71	21	—	
... ...	13		—	
... ...	221		13	£5 and costs. £2 and costs. £1 and costs. £5 and costs. £2 and costs. £1 and costs. £2 and costs. £2 and costs. 10s. and costs. £3 and costs. 10s. and costs. £2 and costs. 10s. and costs. £1 and costs. 10s. and costs. £2 and costs.
..	5	5	—	
... ...	5	4		1s. and costs.
...	5	5	—	
..	5	5	—	
.. ..	13	13	—	
.. ..	12	12	—	
...	16	16	—	
...	12	12	—	
... ...			—	
... ...	11	8	3	No proceedings taken.
... ...			—	
...			—	
...	5		—	
... ...	2	2	—	
...	2	2	—	
Powder ...	2	2	—	
...	17	17	—	
of Soda...	2	2	—	
...	21	21	—	
... ...	12	12	—	
... ...	1	1	—	
... ...	9	9	—	
Milk ...	3	3	—	
...	1	1	—	
Syrup ...	4	4	—	
...	6	6	—	
...	1	1	—	
...	5	5	—	
Peas ...	1	1	—	
...	1	1	—	
Nitre	4	4	—	
...	3	3	—	
...	3	3	—	
...	2	2	—	
...	6	6	—	
...				

MAGISTERIAL PROCEEDINGS.

	Number of Cases.	Fines. £ s. d.
Proceedings under Sale of Food and Drugs Act ...	17 ...	34 1 0
,, ,, Seamen's Bye-laws	8 ...	51 5 0
,, ,, Common Lodging Houses ...	— ...	—
,, ,, Cowsheds and Milkshops Order ...	— ...	—
,, ,, Housing of the Working Classes Act	33 ...	—
,, ,, Factory Act	1 ...	0 5 0
,, ,, Shop Hours Act	— ...	—
,, ,, Public Health Act	19 ...	48 0 0
,, ,, Town Police Clauses Act (Sec. 81) ...	13 ...	0 7 6
	91	£133 18 6

I have the honour to be, Gentlemen,

Your obedient Servant,

EDWARD WALFORD, M.D.,

Medical Officer of Health.

Report of Mr. D. VAUGHAN, Chief Inspector of Nuisances, and Inspector of Canal Boats, for the year 1901.

NUISANCES:—	
Rooms inspected	4,057
Premises	[illegible]
Nuisances abated without legal proceedings	4,057
,, ,, with ,, ,, ...	—
Premises found to be a nuisance	53
Foul drains and foul accumulations	372
Chimneys emitting smoke	6
Premises in dirty or filthy condition	72
Premises unfit for human habitation	28
Dirty dwellings	897
Premises limewashed and cleansed	389
Premises ordered and repaired	60
Cisterns	812
Cisterns cleansed	457
Water-closets and W.Cs. cleansed	6
Defective water-closets repaired	72
Water-closets	
Ashpits	17
Ashpits abolished, dwelling houses	6
Ashpits	
Ashpits	
Ashpits repaired...	93
Bakehouses and workshops cleansed and lime-washed	155
Bakehouses W.C. accommodation provided	15
Cesspools	
Cesspools and water-closets abolished	4
Dampness in basement of house	2
Defective apparatus to water supply	1
DISINFECTION:—	
Houses disinfected	1,672
Articles of bedding and clothing disinfected	29,701
,, ,, ,, destroyed	299
OFFENSIVE TRADES:—	
Premises visited...	1,015
SLAUGHTER HOUSES AND MARKETS:—	
Licensed slaughter houses	165
,, ,, markets	205
Meat destroyed unfit for food—Beef, 23,429 lbs.; Fruit, 40 lbs.; Pork, 4,374 lbs.; Veal, 50 lbs.; Mutton, 663 lbs.; Fish, 850 lbs.; Bacon, 464 lbs.; Ham, 130 lbs.; Poultry, 120 lbs.; Tinned Provisions, 1068 lbs.; Condensed Milk, 228 lbs.	
Fried Fish and Provision Shops inspected	4,830
COWSHEDS, MILKSHOPS AND DAIRIES:—	
Cowkeepers and Purveyors on register	24
Cowsheds	
Total ...	50

[illegible]keepers registered during the year	—
[illegible]sellers registered during the year	105
	105

[illegible]visits paid to cowsheds	218
.. .. milkshops	1,134
... ...	72
	1,424

COWSHEDS, MILKSHOPS, AND DAIRIES.

Particulars of Inspection.	Cowsheds.	Milkshops.
[illegible]spections	218	1,134
[illegible]dition	15	1,071
[illegible]s. or drains defective	—	32
[illegible]ure erected	—	1
[illegible]d accumulations of rubbish	2	27
[illegible]s used for purposes incompatible with proper preser- [illegible]	—	3
[illegible]nongst persons employed	—	8
[illegible]e lighting, cleansing, ventilating of air space, and [illegible]	7	7
[illegible]	—	—
[illegible]	—	—

CANAL BOATS.

[illegible]s on Register	36
.. [illegible]ections	109
.. [illegible]s found in good condition	85
.. ,, with wrong register number	1
.. ,, found with defective ventilators	12
[illegible]ancelled	2
[illegible]defective	6
[illegible]s served and complied with	12
[illegible]g	.
[illegible]chimney	1
[illegible]s served and complied with	18

March ...	...	56	29·747	64·0	16·0	43·9	32·4	40·6	41·3	41·7	40·0	38·0	84	2·10	·31	5th	12	22·0	1·9
April ...	...	59	29·800	71·0	23·5	57·3	36·6	46·9	47·5	46·1	45·7	45·4	97	4·54	·91	3rd	14	16·0	1·4
	...																		
	...																		
	...																		
August ...	...	65	30·366	76·0	45·0	67·2	52·9	60·0	60·7	59·1	58·8	58·4	98	4·00	1·30	13th	14	14·2	2·9
	...	62	29·871	70·0	40·0	65·2	50·0	57·7	58·7	55·7	57·7	55·5	86	4·36		13th	17	13·6	2·4
October ...	...	60	29·895	67·0	25·0	56·9	42·5	49·7	52·0	52·4	50·6	43·8	87	2·64	·37	1st	21	12·0	1·7
November	...	60	30·190	63·0	14·2	50·9	32·2	41·5	44·6	49·3	39·7	37·7	84	1·50	·51	11th	8	16·4	1·7
	...	56	29·818	58·3	15·0	47·2	31·2	39·2	40·9	43·3	40·5	38·6	84	7·15	·99	7th &	21	13·9	0·9

...perature of Each Month in the Year, as compared with that of the previous Five Years.

				1896	1897	Means of 5 years	1898	1899	1900	1901
	...			39°4	35°5	36°3	41°6	35°9	44°0	42°2	36°5	[illegible]°9
	..			43°0	29°3	38°9	40°3	43°5	41°3	41°3	39°8	37°8
	...			44°4	41°6	41°9	45°9	44°6	41°1	42°1	38°3	40°6
	...			47°0	47°9	47°3	48°0	46°3	46°6	47°2	46°6	46°9
	...			49°7	54°4	52°6	52°9	49°1	49°9	52°0	50°4	53°5
	...			57°1	58°5	58°5	61°4	59°5	55°9	59°8	55°3	57°3
	...			60°3	60°0	61°6	61°4	62°7	60°6	63°8	63°9	64°2
	...			57°5	59°0	59°8	58°6	60°9	61°5	68°3	59°3	60°0
	...			53°2	59°7	56°6	56°8	54°4	58°8	57°8	55°5	57°7
	...			50°3	46°7	47°9	46°2	51°2	52°7	48°9	49°1	49°7
	...			47°2	47°2	44°6	39°9	46°1	45°7	47°0	44°5	41°5
	...			41°8	40°0	40°0	40°0	42°5	46°7	37°3	43°5	40°9

The Monthly Table Illustrating the Daily Direction of Wind throughout the Year 1901.

Direction of Wind	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year 1901
... ...	1	4	1	1	...	1	4	...	...	3	4	2	21
... ...	14	8	12	8	19	9	15	9	12	12	14	9	141
... ...	4	10	6	3	2	7	5	10	3	3	4	2	59
... ...	[illegible]	[illegible]	..	...	1	...	...	1	1	2	...	1	7
.. ...	[illegible]	[illegible]	1	7	5	6	3	9	3	2	2	3	46
... ...	3	[illegible]	7	9	3	5	2	2	8	6	2	5	59
... ...	...	...	4	1	1	...	1	...	2	2	1	1	13
... ...	2	[illegible]	...	1	...	2	1	...	1	1	3	8	19

Year.	JANUARY.				FEBRUARY.				MARCH.			
	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest fall.	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest fall.	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest fall.
1876	1·91	12	0·68	2nd	5·23	22	0·90	14th	3·92	22	0·54	9th
1877	5·77	27	0·72	3rd	2·79	20	0·42	11th	2·66	21	0·55	23rd
1878	1·73	17	0·36	27th	3·07	16	0·87	27th	1·25	8	0·40	28th
1879	5·95	10	1·30	1st	5·95	23	0·86	20th	1·14	14	0·32	23rd
1880	0·87	11	0·42	13th	3·88	22	1·06	18th	1·90	12	0·75	2nd
1881	0·92	12	0·23	26th	4·81	15	1·12	9th	3·88	16	0·68	3rd
1882	3·19	13	0·82	2nd	2·56	15	0·60	28th	2·26	19	0·32	1st
1883	5·75	25	1·11	24th	3·73	20	0·65	10th	0·60	10	0·12	19th
1884	6·03	21	0·99	31st	4·40	22	1·35	17th	3·39	16	1·27	3rd
1885	3·71	20	0·58	9th	3·65	22	0·67	26th	1·87	16	0·53	29th
1886	5·03	23	0·91	30th	1·32	11	0·62	28th	3·97	13	0·68	20th
1887	2·76	15	0·73	7th	1·45	6	0·73	3rd	3·21	10	1·16	15th
1888	1·70	12	0·49	1st	1·07	9	1·09	2nd	4·62	15	0·76	24th
1889	1·58	10	0·58	9th	2·00	16	0·64	10th	3·39	16	1·17	8th
1890	5·21	24	0·61	26th	0·55	7	0·22	19th	1·52	14	0·28	24th
1891	3·58	13	1·26	23rd	0·05	2	0·03	2nd	1·76	16	0·31	15th
1892	2·10	15	0·70	16th	2·38	19	0·58	26th	1·18	6	0·48	15th
1893	2·38	19	0·94	12th	6·04	22	0·95	25th	0·31	6	0·14	2nd
1894	3·20	23	0·44	19th	3·68	20	0·78	17th	3·37	13	0·82	1st
1895	3·88	20	0·71	19th	0·17	4	0·08	24th	3·92	21	0·85	27th
1896	0·64	6	0·40	24th	1·39	9	0·80	13th	4·47	24	0·54	7th
1897	3·78	17	0·50	31st	5·73	21	0·70	4th	6·29	19	0·90	21st
1898	1·36	10	0·48	10th	1·71	17	0·22	18th	1·12	9	0·53	6th
1899	5·50	20	1·03	20th	3·89	13	0·79	4th	1·39	6	0·88	25th
1900	5·81	23	1·26	6th	6·40	20	0·99	18th	1·06	6	0·33	21st
1901	2·48	17	0·59	26th	1·01	10	0·55	[illegible]	2·10	12	0·31	6th

Year												
1876	1·91	17	0·38	5th	0·44	4	0·44	24th	1·91	9	0·72	5th
1877	2·95	20	0·52	20th	2·47	14	0·39	16th	1·46	13	0·44	1st
1878	4·10	21	0·75	9th	4·32	21	0·71	16th	3·68	15	1·55	16th
1879	2·64	17	0·73	19th	2·85	15	0·88	29th	6·48	23	1·64	30th
1880	1·98	13	0·40	5th	1·45	11	0·46	26th	2·38	19	0·53	17th
1881	1·44	7	0·60	13th	2·62	10	1·73	17th	3·59	18	0·63	15th
1882	5·68	20	0·60	12th	2·72	13	0·59	22nd	4·28	20	0·62	5th
1883	0·67	7	0·28	26th	1·90	12	0·70	11th	1·81	17	1·16	5th
1884	1·56	11	0·43	3rd	2·37	14	0·50	2nd	1·92	9	1·11	28th
1885	2·52	16	0·67	1st	3·86	27	0·71	19th	2·61	13	1·04	25th
1886	2·98	15	0·73	7th	6·38	19	1·52	31st	0·70	7	0·28	1st
1887	1·63	10	0·45	26th	1·94	14	0·63	19th	0·60	4	0·51	2nd
1888	1·48	13	0·30	17th	1·69	8	0·40	17th	3·69	17	0·74	17th
1889	3·54	18	0·71	30th	2·51	16	0·38	31st	0·58	6	0·41	1st
1890	1·80	14	0·34	6th	1·99	13	0·66	9th	2·46	17	0·40	10th
1891	2·02	11	0·40	2nd	3·41	17	0·75	21st	2·47	12	1·30	24th
1892	1·27	9	0·43	20th	1·35	11	0·66	27th	1·93	10	0·61	23th
1893	0·29	5	0·16	1st	2·80	12	0·72	19th	0·67	9	0·23	22nd
1894	2·05	15	0·41	23rd	2·18	15	0·50	15th	2·43	16	0·61	23rd
1895	2·08	12	0·55	24th	0·50	3	0·41	31st	1·15	9	0·32	30th
1896	2·83	14	0·80	15th	0·22	3	0·14	13th	2·48	11	1·00	7th
1897	8·18	20	0·90	13th	2·29	8	0·50	29th	5·02	11	0·90	8th
1898	1·40	10	0·28	11th	4·80	20	0·80	11th	5·06	14	0·90	4th
1899	4·34	18	0·92	20th	2·49	12	0·78	19th	1·17	5	0·45	30th
1900	1·63	17	0·34	3rd	1·59	13	0·34	21st	1·15	13	0·67	19th
1901	4·54	14	0·91	3rd	0·91	5	0·42	30th	3·00	9	1·00	30th

TABLE SHOWING RAINFALL AT CLIFFE IN EACH MONTH, DURING THE [illegible] YEARS 1876–1901.

YEAR.	JULY.				AUGUST.				SEPTEMBER.			
	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest fall.	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest fall.	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest fall.
1876	1·91	10	0·41	6th	6·06	27	2·72	19th	7·68	19	1·28	26th
1877	4·94	18	1·27	14th	5·70	21	1·42	27th	3·25	8	1·39	27th
1878	2·01	9	0·78	23rd	10·82	24	3·64	15th	3·21	9	1·28	22nd
1879	4·00	21	0·81	19th	8·12	22	1·34	27th	4·85	17	0·69	7th
1880	6·64	23	0·95	17th	0·77	7	0·27	2nd	3·67	15	0·77	17th
1881	2·62	15	0·77	30th	6·94	20	1·45	22nd	2·09	13	0·48	22nd
1882	5·77	24	0·84	6th	6·75	16	1·14	22nd	3·94	17	0·79	28th
1883	3·56	21	0·82	20th	2·09	16	0·73	8th	6·14	19	1·53	23rd
1884	4·05	20	0·94	23rd	2·21	9	0·84	31st	1·96	15	8·64	21st
1885	0·72	6	0·31	18th	2·74	12	1·07	6th	6·51	23	1·76	10th
1886	4·35	17	0·71	29th	1·68	9	0·44	9th	4·08	14	0·75	4th
1887	1·51	13	0·85	26th	2·88	11	1·02	16th	4·07	17	1·24	1st
1888	6·83	25	1·16	7th	3·50	17	0·74	29th	1·21	8	0·52	27th
1889	3·85	12	1·16	9th	3·90	15	0·65	2nd	2·09	9	1·53	23rd
1890	3·57	19	0·73	17th	3·95	20	0·95	9th	1·57	11	0·50	17th
1891	2·21	17	0·36	2nd	7·19	22	1·10	26th	2·43	19	0·51	3rd
1892	3·83	9	1·50	12th	4·64	16	1·62	27th	3·95	14	1·38	29th
1893	3·88	17	0·80	10th	3·05	14	0·52	20th	2·03	15	0·89	28th
1894	4·22	20	0·97	24th	4·55	18	1·55	25th	2·22	10	0·80	22nd
1895	4·71	15	0·94	23rd	4·08	17	1·19	12th	1·17	10	0·40	6th
1896	1·14	8	0·35	24th	2·89	15	0·84	19th	7·34	23	1·10	17th
1897	2·51	8	0·80	6th	5·42	16	1·30	30th	6·37	13	1·38	29th
1898	0·40	2	0·20	1st	3·48	10	0·67	6th	1·94	4	1·38	29th
1899	0·32	6	0·09	1st	1·74	7	0·56	[illegible]th	2·59	13	0·74	26th
1900	0·68	8	0·27	27th	4·06	14	0·88	5th	1·32	10	0·50	26th
1901	2·58	8	1·00	23rd	4·00	14	1·30	13th	4·36	17	1·52	13th

YEAR	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest Fall in 24 hours.	Date of Greatest Fall.
1876	3·84	17	0·52	16th
1877	1·89	16	1·15	24th
1878	5·56	18	1·09	23rd
1879	1·54	12	0·35	13th
1880	4·93	15	1·45	25th
1881	3·23	13	0·72	22nd
1882	8·35	25	1·64	23rd
1883	4·53	17	0·61	15th
1884	1·04	17	0·35	8th
1885	5·59	22	1·60	22nd
1886	5·03	24	0·87	15th
1887	2·36	13	1·14	29th
1888	1·74	11	0·59	26th
1889	3·71	25	0·48	8th
1890	1·52	16	0·41	7th
1891	7·12	22	1·32	18th
1892	2·69	15	0·51	27th
1893	5·76	24	1·29	4th
1894	1·91	14	1·05	24th
1895	3·67	15	0·94	3rd
1896	2·65	19	0·74	5th
1897	3·28	7	0·90	2nd
1898	7·30	18	1·13	17th
1899	4·37	15	0·60	27th
1900	6·70	24	1·66	28th
1901	2·67	24	0·31	1st

YEAR	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest Fall in 24 hours.	Date of Greatest Fall.
1876	5·27	18	0·75	12th
1877	6·51	25	1·06	24th
1878	5·76	13	0·84	9th
1879	0·43	8	0·18	20th
1880	3·67	15	0·90	15th
1881	4·98	23	0·65	28th
1882	6·26	21	0·90	7th
1883	6·38	24	0·80	21st
1884	2·42	16	0·47	30th
1885	5·47	14	1·11	27th
1886	4·39	21	1·03	4th
1887	3·48	21	0·69	3rd
1888	7·04	26	1·13	12th
1889	1·87	12	0·75	24th
1890	3·89	20	0·67	6th
1891	3·91	15	0·74	28th
1892	3·25	18	0·66	4th
1893	2·30	13	0·58	1st
1894	4·72	20	0·83	13th
1895	4·24	23	0·60	5th
1896	0·96	5	0·60	15th
1897	1·82	7	0·63	25th
1898	6·44	16	1·39	23rd
1899	3·29	11	0·80	9th
1900	4·99	22	0·74	24th
1901	1·50	8	0·53	14th

YEAR	Rainfall in Month. Inches.	Days on which 0·01 or more rain fell.	Greatest Fall in 24 hours.	Date of Greatest Fall.	Mean Temperature of Month. Degrees F.
1876	7·15	23	0·99	17th	46·92
1877	3·49	25	0·88	28th	46·75
1878	2·71	10	0·75	28th	45·71
1879	2·11	9	0·79	31st	44·75
1880	6·70	20	1·19	14th	38·85
1881	4·50	15	1·17	7th	41·62
1882	4·56	25	0·73	31st	56·60
1883	1·92	17	0·57	10th	53·78
1884	5·87	20	0·68	5th	36·89
1885	1·71	17	0·65	5th	40·20
1886	6·11	24	1·33	26th	48·31
1887	3·16	20	0·75	12th	49·49
1888	3·61	16	0·78	27th	53·19
1889	2·30	14	0·89	24th	51·58
1890	0·89	4	0·33	18th	29·23
1891	6·45	19	0·78	30th	42·34
1892	2·23	12	0·67	1st	24·82
1893	1·18	19	0·24	12th	33·31
1894	2·68	20	0·51	17th	41·13
1895	3·15	31	0·45	17th	32·64
1896	6·41	22	0·79	4th	35·02
1897	6·22	18	1·79	7th	56·89
1898	5·41	17	1·03	6th	51·07
1899	3·03	19	0·75	28th	30·75
1900	0·24	26	1·05	30th	41·90
1901	7·15	21	0·90	7th & 28th	30·27

TABLE I.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1901 AND PREVIOUS YEARS.

Year.	Population estimated to Middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all Ages belonging to the District.	
				Under 1 Year of Age.		At all Ages.						
		Number.	Rate.*	Number.	Rate per 1,000 Births registered.	Number.	Rate.*				Number.	Rate.*
1	2	3	4	5	6	7	8	9	10	11	12	13
1891	130,283	4,737	36·5	725	153	2,873	22·0	330	...	...	2,873	22·0
1892	132,895	4,776	35·8	782	163	2,560	19·2	311	...	..	2,560	19·2
1893	136,168	5,110	37·5	918	179	2,794	20·4	332	...	...	2,794	20·4
1894	139,519	5,100	36·5	722	141	2,415	17·3	263	...	...	2,415	17·3
1895	142,958	5,321	37·1	951	179	2,840	19·9	342	...	...	2,840	19·9
1896	146,479	5,591	38·1	923	165	2,826	19·2	364	31	...	2,795	19·0
1897	150,087	5,279	35·1	796	151	2,568	17·1	303	34	...	2,534	16·8
1898	153,783	5,520	35·9	870	158	2,684	17·4	312	57	...	2,627	17·0
1899	157,414	5,309	33·7	976	184	2,951	18·7	321	93	...	2,858	18·1
1900	161,452	5,198	35·2	730	141	2,745	17·0	314	78	...	2,667	16·5
Average 1891-1900 ...	145,283	5,191	35·7	839	161	2,725	18·7	325	...	...	2,636	18·5
1901	165,303	5,206	31·4	775	148	2,671	16·1	352	75	57	2,653	16·0

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Total population at all ages	164,333	At Census of 1901.
Number of inhabited houses	27,971	
Average number of persons per house	5·8	
Area of District in acres (exclusive of area covered by water) . ..	6,373	

Name of Locality.	COUNTY BOROUGH OF CARDIFF. (Whole District)				EAST CARDIFF. Registration (Sub-district)				CENTRAL CARDIFF. Registration (Sub-district)				WEST CARDIFF. Registration (Sub-District)			
YEAR.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
1891 ...	130,283	4,737	2,871	725	...	...	...	...	...	...	...	...	...	...	...	...
1892 ...	132,895	4,789	2,559	782	...	...	...	...	...	...	...	...	...	...	...	...
1893 ...	136,168	5,121	2,796	918	...	...	...	...	...	...	...	...	...	...	...	...
1894 ...	139,519	5,103	2,408	722	...	...	...	...	...	...	...	...	...	...	...	...
1895 ...	142,950	5,324	2,826	951	...	...	...	...	...	...	...	...	...	...	...	...
1896 ...	146,479	5,591	2,784	923	...	...	...	...	...	...	...	...	...	...	...	...
1897 ...	150,[illegible]	5,873	2,554	756	[illegible]	1,7[illegible]	62[illegible]	248	54,1[illegible]	1,[illegible]28	969	250	50,051	2,015	9[illegible]	3[illegible]
1898 ...	153,783	5,550	2,671	830	4[illegible],4[illegible]	1,[illegible]1	711	266	54,217	1,619	924	279	51,924	2,029	9[illegible]	30[illegible]
1899 ...	157,414	5,309	2,858	976	49,040	1,750	753	307	54,300	1,617	1,009	308	53,861	1,942	1,096	361
1900 ...	161,452	5,1[illegible]	2,6[illegible]	730	51,086	1,6[illegible]	72[illegible]	214	54,3[illegible]	1,510	907	229	55,871	2,0[illegible]	1,0[illegible]	2[illegible]
Averages of Years 1891 to 1900	145,103	5,196	2,693	839	...	...	...	...	...	...	...	...	...	...	...	...
1901 ...	165,308	5,206	2,653	775	53,111	1,667	668	226	54,402	1,572	912	255	57,962	1,967	1,073	294

	Cases Notified in Whole District.							Total Cases Notified in each Locality			Cases Removed to Hospital from each Locality.		
	At all Ages.	At Ages—Years.						East Cardiff Regis. Sub-Dist.	Central Cardiff Regis. Sub-Dist.	West Cardiff Regis. Sub-Dist.	East Cardiff Regis. Sub-Dist.	Central Cardiff Regis. Sub-Dist.	West Cardiff Regis. Sub-Dist.
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.						
Small pox	3	1	1	1	...	5	...	3	...	...	3	...	...
Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria	724	9	227	357	77	53	1	179	189	356	98	82	171
Membranous Croup	10	1	5	4	...	...	...	...	2	8	...	...	...
Erysipelas	152	4	3	16	24	102	3	39	35	78	...	...	...
Scarlet Fever	1,362	28	362	834	99	39	...	597	360	405	254	172	189
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever	73	...	3	21	20	29	...	18	28	27	12	15	15
[illegible]	..	...	...	...	...	...	...	...	...	...	...	...	...
[illegible]	3	...	...	...	1	2	...	...	1	2	...	5	2
Puerperal Fever	16	...	...	...	...	16	...	6	2	8	...	...	..
[illegible]	1	...	...	...	...	1	...	1	...	...	...	...	..
[illegible] ...	2,349	43	601	1,233	221	247	4	848	617	884	722	771	377

LOCAL GOVERNMENT [illegible] TABLE.

TABLE IV.

CAUSES OF, AND AGES AT, DEATH DURING [illegible] 1891.

CAUSES OF DEATH.	Deaths in or belonging to whole District at subjoined Ages.							Deaths in or belonging to Localities at all ages.			Total Deaths in Public Institutions in the District.
	All Ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	East Cardiff Reg. Sub-dis.	Central Cardiff Reg. Sub-dis.	West Cardiff Reg. Sub-dis.	
Small-pox	1	...	...	...	...	1	...	...	...	1	1
Measles	3	1	2	...	...	...	...	...	...	3	1
Scarlet fever ...	29	...	23	6	...	...	...	6	4	19	11
Whooping-cough ...	86	42	41	3	...	...	...	17	31	38	...
Diphtheria and membranous croup ...	78	3	47	27	...	1	...	8	20	50	29
Typhus	6	4	2	...	...	...	...	3	1	2	...
Enteric (Typhoid) fever ...	11	...	1	1	3	5	...	1	4	6	1
Epidemic influenza ...	26	2	...	1	1	17	5	10	11	5	...
Rabies	1	...	...	...	...	1	...	1	...	...	...
Diarrhœa	76	67	5	1	...	2	1	28	21	27	
Enteritis	52	34	9	2	1	4	2	34	13	5	
Puerperal fever ...	5	...	...	...	...	5	...	...	1	4	..
Erysipelas	5	2	...	...	...	2	...	1	...	4	
Other septic diseases ...	10	2	2	...	1	5	...	2	3	5	
Phthisis	179	3	3	8	38	125	2	43	45	91	5
Other tubercular diseases	39	11	6	4	8	10	...	17	8	14	3
Cancer, malignant disease	75	...	...	1	...	57	17	24	23	28	1
Bronchitis	269	69	27	1	1	71	53	57	75	77	11
Pneumonia	287	78	62	12	16	88	31	82	95	110	22
Pleurisy	11	3	1	...	...	5	2	1	7	3	...
Other diseases of Respiratory organs ...	20	3	4	...	...	10	3	8	3	9	1
Alcoholism, Diseases of liver ...	32	...	...	...	2	26	4	7	7	18	1
Nervous diseases ...	6	2	1	...	...	2	1	...	1	5	1
Premature birth ...	84	84	...	...	...	...	...	25	24	35	3
Violence, accidents of [illegible] ...	19	...	...	...	2	17	...	8	4	7	...
[illegible] ...	182	4	4	11	15	147	41	53	68	61	15
[illegible] ...	77	3	9	7	13	38	7	11	54	12	2
[illegible] ...	13	...	...	...	...	12	1	2	9	2	1
[illegible] ...	4	2	...	...	...	1	1	1	2	1	...
All other causes ...	1,027	363	75	35	30	289	235	218	375	434	133
All causes ...	2,653	776	317	120	131	903	406	668	912	1,073	332

[illegible] AND AT SIX GROUPS O[illegible]

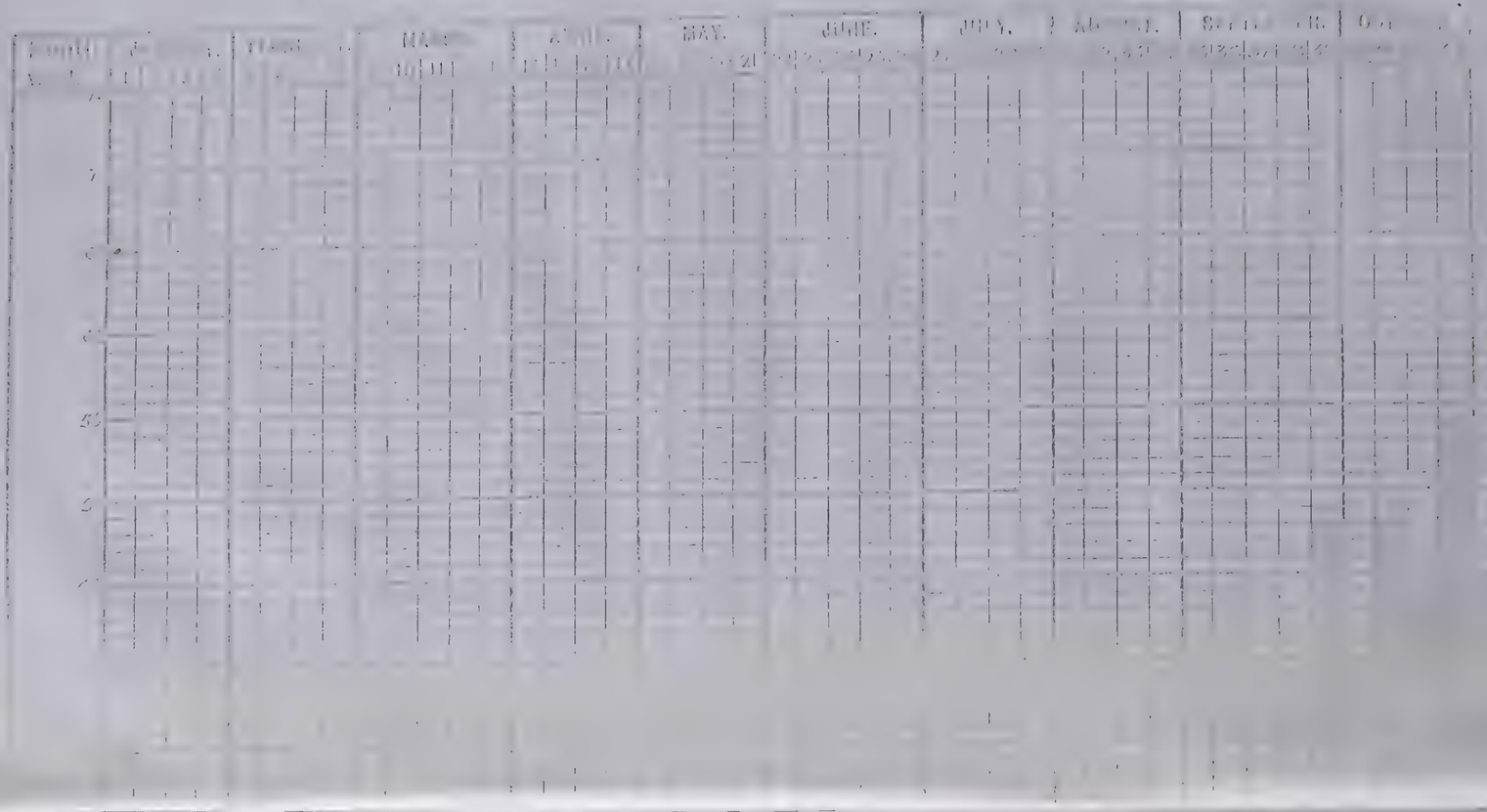
Est[illegible] Popul[illegible], 1[illegible]

Causes of Death.	Under 1		1 to 5		5 to 15		15 to 25		25 to 65		65 and upwards		All Ages.			Rate per 1,000 Living
All Causes	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.	
Vacci[illegible]	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Un[illegible]	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1	[illegible]
No [illegible]	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
[illegible]	...	1	1	1	...	...	...	...	...	...	...	...	1	2	[illegible]	[illegible]
[illegible]	...	...	...	9	[illegible]	3	...	...	...	...	...	...	17	[illegible]	[illegible]	0·[illegible]
[illegible]	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
[illegible]	[illegible]	...	...	...	...	1	1	...	[illegible]	[illegible]	2	3	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	...	[illegible]	[illegible]	[illegible]	1	...	...	...	...	...	...	41	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	1	[illegible]	21	9	10	...	...	1	...	...	...	[illegible]	[illegible]	7	0·[illegible]
[illegible]	...	...	1	...	...	1	[illegible]	1	[illegible]	2	...	...	7	[illegible]	[illegible]	[illegible]
[illegible]hol. Diarrh.	...	1	...	...	...	...	...	...	...	...	...	...	...	1	1	0·0[illegible]
[illegible]ry	[illegible]	[illegible]	[illegible]	[illegible]	...	1	...	...	1	1	1	...	[illegible]	[illegible]	7	[illegible]
[illegible]s	...	2	...	1	...	...	...	...	...	2	...	1	...	6	[illegible]	0·0[illegible]
[illegible]	...	2	...	...	...	...	...	...	3	...	...	...	3	2	5	[illegible]
[illegible]is	...	...	...	1	...	...	...	...	2	[illegible]	...	...	[illegible]	4	6	[illegible]
[illegible]	...	...	...	...	...	...	...	...	...	5	...	...	...	5	5	0·[illegible]
[illegible]. or Zymotic Dis[illegible]	1	1	1	...	...	...	1	...	...	...	...	...	3	1	4	[illegible]
[illegible]	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
[illegible]holism	...	...	...	...	...	...	...	...	2	6	...	...	2	6	8	0·[illegible]
[illegible]	...	...	...	...	1	1	...	1	1	1	...	...	2	3	[illegible]	0·0[illegible]
[illegible]	...	...	...	...	3	...	...	...	1	2	1	3	5	5	10	0·0[illegible]
[illegible]	1	3	[illegible]	1	...	...	...	...	...	1	...	...	5	5	10	[illegible]
[illegible]	...	...	...	...	1	...	...	...	24	[illegible]	6	11	[illegible]	47	[illegible]	[illegible]
[illegible]	9	2	...	1	...	...	...	...	...	1	...	...	9	4	13	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	...	41	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	...	2	[illegible]	[illegible]	[illegible]	1

[illegible]	3	4	1	1	4	6		0·06
[illegible]					9			0·05
[illegible]					1		1	0·00
[illegible]	1	1		1	1	3	4	0·02
[illegible]	1				2	2	4	0·02
[illegible]					4	2	6	0·03
Larynx and Trachea	1				3	2	5	0·03
[illegible]					4	7	11	0·06
[illegible]	44		23	30	4	95	209	1·26
[illegible]				18	[illegible]	125	286	1·71
[illegible] Diseases							11	0·06
[illegible]								
[illegible]ch and Intestines								

1901.

Weekly Notifications of Scarlet Fever, Diphtheria, and Enteric Fever.



1901.

METEOROLOGICAL OBSERVATIONS,

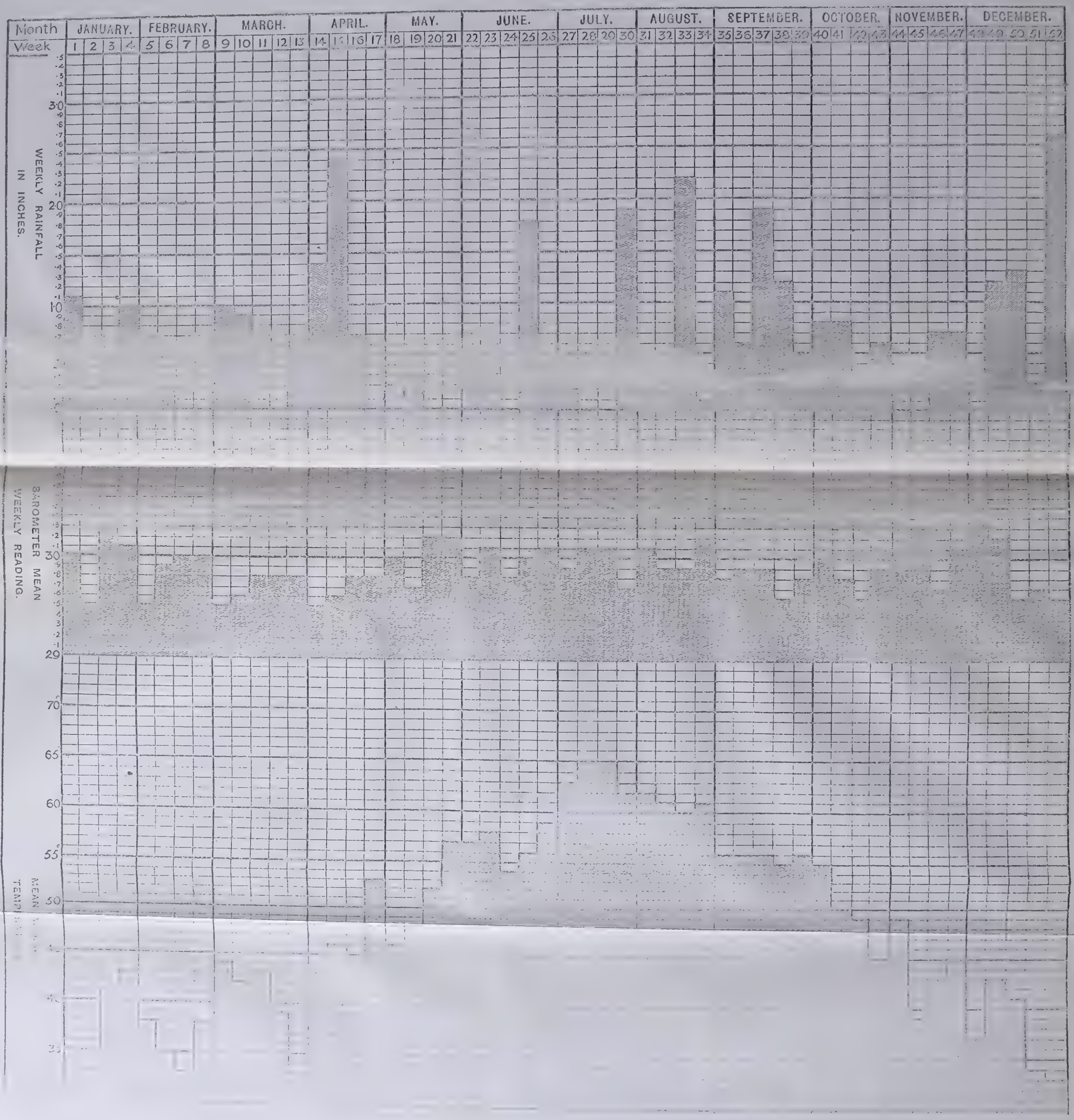


Chart Shewing death-rate per 1,000 of the population from Zymotic Diseases during the Years 1878—1901.

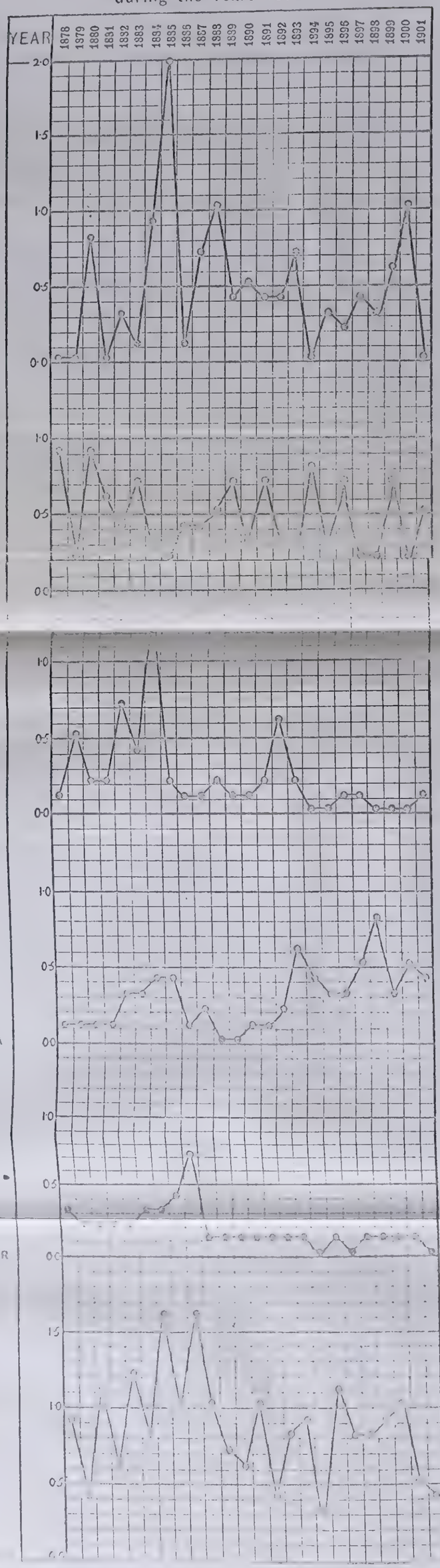
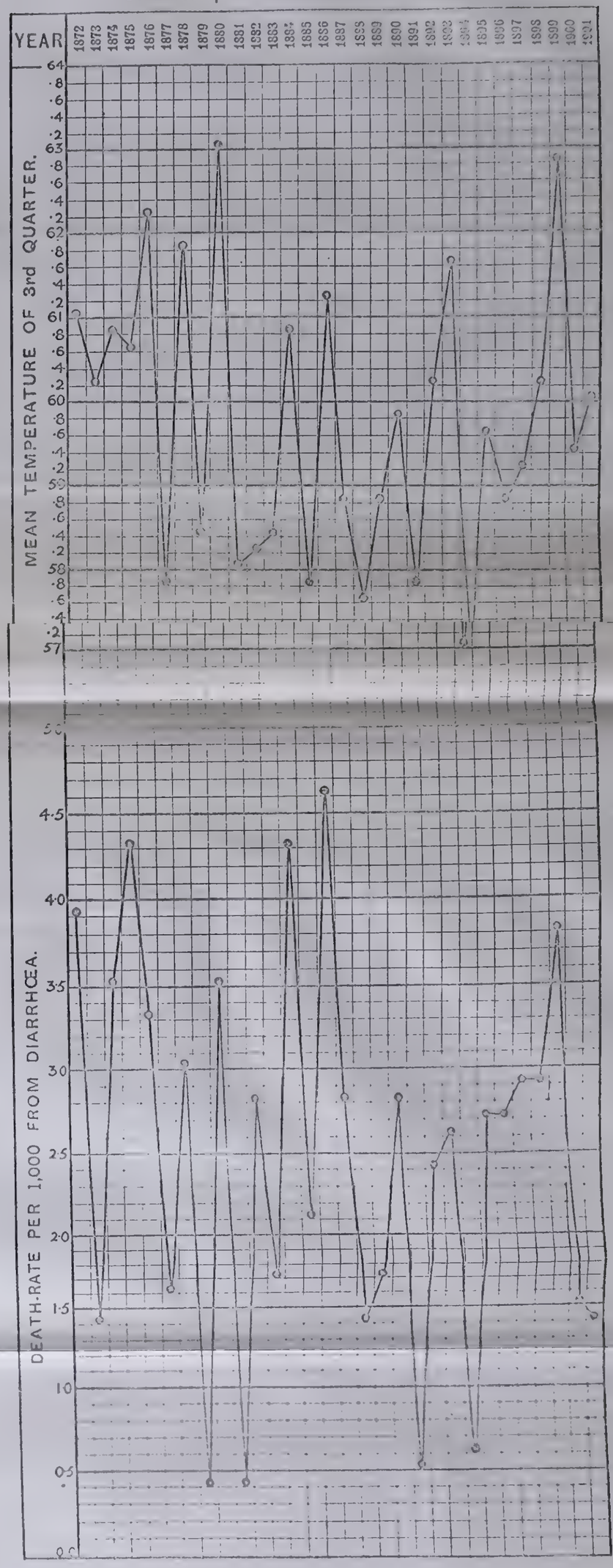
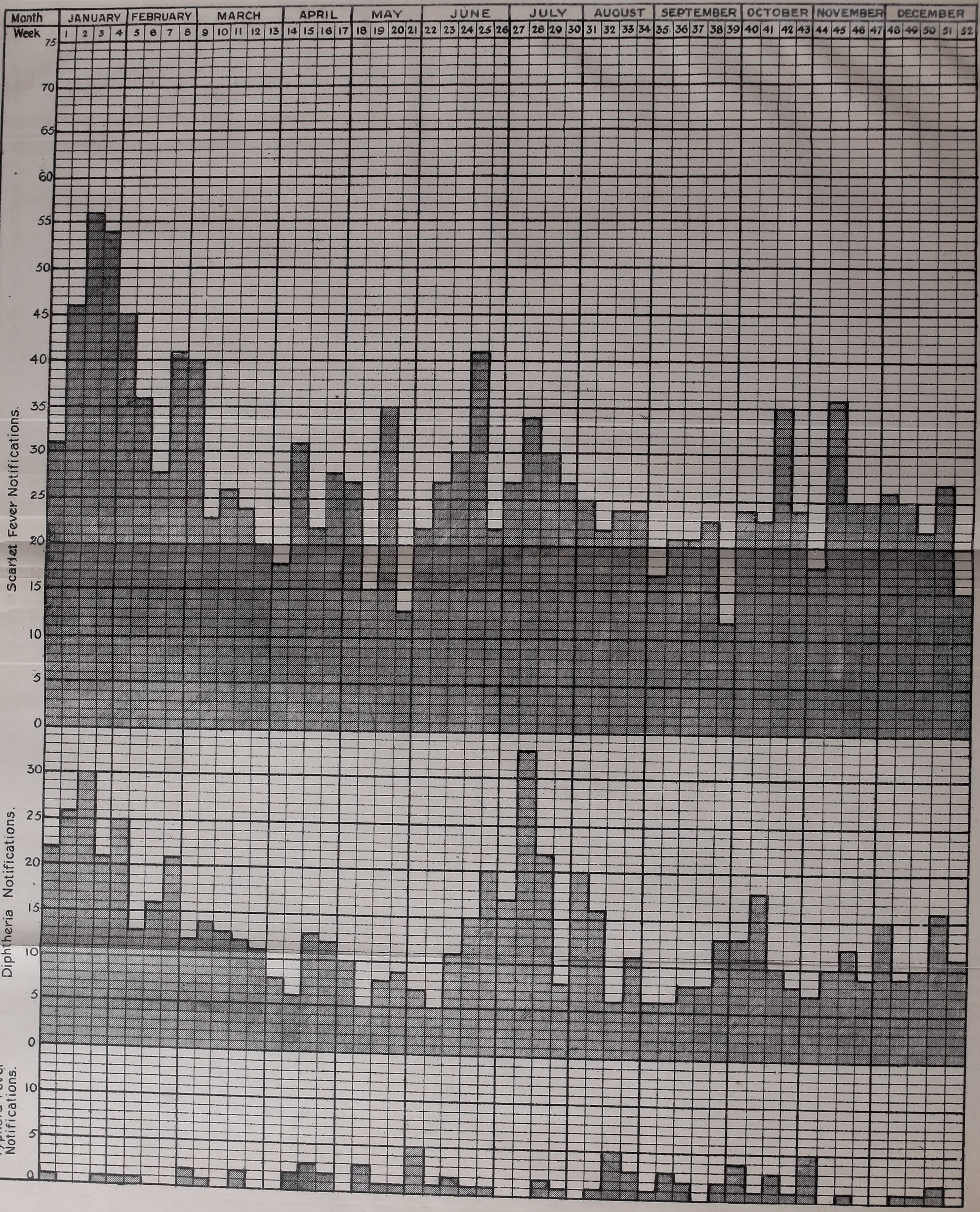


Chart shewing the influence of temperature on the Diarrhœa death-rate in Cardiff, during the Summer quarters of the Years 1872—1901



Weekly Notifications of Scarlet Fever, Diphtheria & Typhoid Fever.



AUSES, AND THE SEVEN CHIEF ZYMOTIC DISEASES.